

152241

Delaval, Jan

From: Liu, Samuel
Sent: Monday, May 02, 2005 3:56 PM
To: Delaval, Jan
Subject: 10749387

Hi, Jan,

Please conduct search for the amino acid sequence of SEQ ID NO:1 against commercial protein and interference databases for application 10749387 east 50 search results, as timely concerned:

Very best,

Samuel Liu
AU 1653, REM 3C84
571-272-0949

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 2, 2005, 15:59:06 ; Search time 74 Seconds
(without alignments)
658.538 Million cell updates/sec

Title: US-10-749-387-1

Perfect score: 695
Sequence: 1 DLKCPGWSSTDRYCYKPKF.....WPKVDCGQHSFKCKTRRP 126Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 200000000Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 65 summaries

Database : A_Geneseq_16Dec04:*

- 1: geneseqp1980s:*
- 2: geneseqp1990s:*
- 3: geneseqp2000s:*
- 4: geneseqp2001s:*
- 5: geneseqp2002s:*
- 6: geneseqp2003as:*
- 7: geneseqp2003bs:*
- 8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	684	98.4	126	2	AAR71979 Snake ven
2	684	98.4	126	3	AAV85627 Snake ven
3	684	98.4	126	5	AAO20973 126-mer w
4	684	98.4	149	2	AAR71981 Snake ven
5	684	98.4	149	3	AAV85628 Snake ven
6	684	98.4	149	5	AAO20974 149-mer w
7	678	97.6	126	5	AAO20983 M10-G4 K6
8	678	97.6	126	5	AAO20990 M17-G4 R1
9	678	97.6	126	5	AAO20986 M13-G4 R6
10	678	97.6	126	5	AAO20991 M18-G4 R1
11	678	97.6	126	5	AAO20988 M15-G4 R1
12	678	97.6	126	5	AAO20980 M7-G4 K20
13	678	97.6	126	5	AAO20984 M11-G4 E6
14	678	97.6	126	5	AAO20992 M19-G4 E1
15	678	97.3	126	5	AAO20989 M16-G4 D1
16	678	97.3	126	5	AAO20993 M20-G4 F1
17	678	97.3	126	5	AAO20981 M8-G4 D54
18	678	97.1	126	5	AAO20985 M12-G4 Y6
19	675	97.1	126	5	AAO20987 M14-G4 Y6
20	675	96.8	126	5	AAO20982 M9-G4 Y58
21	673	96.8	126	5	AAO20998 M25-G4 D1
22	671	96.5	126	5	AAO20996 M23-G4 D5
23	670	96.4	126	5	AAO20999 M26-G4 D5
24	668	96.1	126	5	AAO20997 M21-G4 D5
25	668	96.1	126	5	AAO20994 M21-G4 D5

26	662	95.3	126	5	AAO20995 M22-G4 D5
27	661	95.1	127	2	AAR24426 Sequence
28	551	79.3	110	5	AAO20975 110-mer c
29	361.5	52.0	158	5	AAE20181 Pigmy rat
30	340.5	49.0	130	2	AAR38228 Sequence
31	322.5	46.4	132	2	AAR38226 Sequence
32	318.5	45.8	131	2	AAR38222 Sequence
33	316.5	45.5	144	5	AAE20180 Pigmy rat
34	314.5	45.3	152	5	AAE20179 Pigmy rat
35	311	44.7	133	2	AAE45156 Botroceti
36	307.5	44.2	134	2	AAR38223 Sequence
37	304.5	43.8	154	5	AAO14520 Korean ad
38	292.5	42.1	152	4	AAAM51543 Snake ven
39	274	39.4	132	5	ABR79130 Anylyant
40	271.5	39.1	129	6	ABU08798 Deinagkis
41	271.5	39.1	129	7	ABU62534 Snake ant
42	262.5	37.8	132	2	AAR72235 Vipera pa
43	256.5	36.9	133	2	AAR38230 Sequence
44	243.5	35.0	123	2	AAR38225 Sequence
45	226.5	32.6	127	2	AAAR72236 Vipera pa
46	210.5	30.3	146	4	AAAM51544 Snake ven
47	210.5	30.3	146	6	ABU08799 Deinagkis
48	210.5	30.3	146	7	ABU62539 Snake ant
49	209	30.1	116	2	AAR24427 Sequence
50	208	29.9	38	2	AAR71978 Snake ven
51	201.5	29.0	123	5	ABR79131 Anylyant
52	200	28.8	107	2	AAR38227 Sequence
53	198	28.5	145	5	AAO14521 Korean ad
54	197	28.3	36	2	AAR23885 N-termina
55	191.5	27.6	125	2	AAAR45157 Botroceti
56	188.5	27.1	125	2	AAAR38224 Sequence
57	184.5	26.5	151	5	AAE20178 Pigmy rat
58	176	25.3	120	5	ABH83143 Anylyant
59	174	25.0	166	1	AAAP81514 Sequence
60	172.5	24.8	34	5	AAO20977 Peptide f
61	172	24.7	44	3	AAV85632 Snake ven
62	172	24.7	165	1	AAAP94614 Human reg
63	168	24.2	133	2	AAAR6593 Human reg
64	168	24.2	144	2	AAAR6592 Human reg
65	168	24.2	146	2	AAAR6591 Human reg

ALIGNMENTS

RESULT 1	AAAR71979	standard; peptide; 126 AA.
ID	AAAR71979;	
AC	AAAR71979;	
XX		
DT	25-MAR-2003 (revised)	
DT	28-NOV-1995 (first entry)	
XX		
DE	Snake venom derived antithrombotic peptide.	
XX		
KW	Antithrombotic peptide; snake venom; platelet binding inhibition;	
KW	von Willebrand factors; Crocatus horridus horridus.	
XX		
OS	Crocatus horridus horridus.	
XX		
FT	Key	Location/Qualifiers
FT	Disulfide-bond 4..15	
FT	Disulfide-bond 32..120	
FT	Disulfide-bond 95..112	
PN	MO9508573-AI.	
XX		
PD	30-MAR-1995.	
XX		
PF	21-SEP-1994;	94MO-JP001555.
XX		
PR	22-SEP-1993;	93JP-00236975.

XX (AJIN) AJINOMOTO KK.
PA
XX
PI Fukuchi N, Yamamoto H, Nagano M, Kito M, Tanaka A, Ishii K;
PI Kobayashi T, Yoshimoto R;
XX
DR WPI; 1995-139559/18.
XX
PT Single-chain antithrombotic peptide - obtained by cleaving an
PT oligopeptide from snake venom to break inter-chain di-sulphide bonds
PT preserve intra-chain di-sulphide bonds.
XX
PS Claim 3; Page 44-45; 84pp; Japanese.
XX
CC AAR71978 and AAR71979 are snake venom derived antithrombotic peptides,
CC prepared by cleaving the interpeptide but retaining the intrapeptide
CC disulphide bonds of the original snake venom oligopeptide. These peptides
CC have the advantage of avoiding significant thrombocytopenia when
CC administered at the minimum dose, for in vivo inhibition of platelet von
CC Willebrand factor binding. (Updated on 25-MAR-2003 to correct PN field.)
CC
XX
SQ Sequence 126 AA;

Query Match 98.4%; Score 684; DB 2; Length 126;
Best Local Similarity 98.4%; Pred. No. 1.5e-71;
Matches 124; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DLECPGMSSTDRYCYKPKQEMTWASAEKFCSEQAKGHLISVETALASFDNVLNAN 60
DB 1 DLECPGMSSTDRYCYKPKQEMTWADAEKFCSEQAKGHLISVETALASFDNVLNAN 60
QY 61 KEYLTRYIWIIGLRVONKQGPCSSISYENLVDPPECFMVSBDTRLREMFKVDCEQHSFIC 120
DB 61 KEYLTRYIWIIGLRVONKQGPCSSISYENLVDPPECFMVSBDTRLREMFKVDCEQHSFIC 120

QY 121 KFTRRP 126
DB 121 KFTRRP 126

RESULT 2
AAV85627
ID AAV85627 standard; protein; 126 AA.

XX
AC AAV85627;

DT 07-FEB-2001 (first entry)

XX Snake venom derived protein.

XX Subunit peptide production; snake venom; rattlesnake; thrombolytic;
KM von Willebrand's factor; blood platelet-inhibitory activity.

XX Crotalus horridus horridus.

XX WO200059926-A1.

PD 12-OCT-2000.

XX 31-MAR-2000; 2000WO-JP002127.

XX 02-APR-1999; 99JP-00096073.

XX (AJIN) AJINOMOTO CO INC.

XX Fukuchi N, Kageyama S, Kito M, Kayahara T, Yamamoto H;

XX WPI; 2000-664985/64.

XX Producing physiologically-active subunit peptides originating in polymer
PT proteins by denaturation and specific separation, with lower antigenicity
PT but improved solubility and stability, e.g. blood platelet-binding
PT inhibitors.

XX Claim 15; Page 44; 51pp; Japanese.

XX This invention relates to a method for the production of a subunit
CC peptide originating from a polymer protein with disulphide bonds within
CC and between subunits. The method comprises denaturing the protein or its
CC subunit using a protein denaturing agent in a solution, removing the
CC agent in the presence of a polyoxalkyl polyether which reacts with a
CC thiol group and unwinds the subunit, and separating the polyoxalkyl
CC polyether-bound subunit peptide. The method can be used for producing
CC physiologically-active subunit peptides for polymer proteins e.g. snake
CC venom-originated dimer peptide with blood platelet-inhibitory activity on
CC von Willebrand's factor. The peptides produced have platelet-binding
CC inhibitory, and thrombolytic activity. The present sequence represents a
CC invention

XX Sequence 126 AA;

Query Match 98.4%; Score 684; DB 3; Length 126;
Best Local Similarity 98.4%; Pred. No. 1.5e-71;
Matches 124; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DLECPGMSSTDRYCYKPKQEMTWASAEKFCSEQAKGHLISVETALASFDNVLNAN 60
DB 1 DLECPGMSSTDRYCYKPKQEMTWADAEKFCSEQAKGHLISVETALASFDNVLNAN 60

QY 61 KEYLTRYIWIIGLRVONKQGPCSSISYENLVDPPECFMVSBDTRLREMFKVDCEQHSFIC 120
DB 61 KEYLTRYIWIIGLRVONKQGPCSSISYENLVDPPECFMVSBDTRLREMFKVDCEQHSFIC 120

QY 121 KFTRRP 126
DB 121 KFTRRP 126

RESULT 3
AAO20973
ID AAO20973 standard; protein; 126 AA.

XX
AC AAO20973;

DT 19-JUL-2002 (first entry)

XX 126-mer wild-type rattlesnake protein.

XX Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
KM antithrombotic; glycoprotein Ib; long half life; low antigenicity;

XX drug efficacy.

XX Crotalus horridus horridus.

XX EP1195384-A1.

XX 10-APR-2002.

XX 04-OCT-2001; 2001EP-00123277.

XX 04-OCT-2000; 2000JP-00305279.

XX (AJIN) AJINOMOTO CO INC.

XX Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;

XX Gendoh K, Shinda N, Yamada N;

XX WPI; 2002-364482/40.

XX Glycoprotein Ib-binding protein, useful for treating thrombosis,
PT comprises specific mutations in protein originating from snake venom.

XX Claim 1; Page 25; 49pp; English.

XX The invention relates to a glycoprotein Ib-binding protein, originating

CC from snake venom, comprising specific mutations and antithrombotic
CC activity. Glycoprotein Ib-binding protein is used in a drug having
CC antithrombotic activity. Glycoprotein Ib-binding protein has a high
CC binding activity to glycoprotein Ib, a long half life/drug efficacy
CC retention in blood, and low antigenicity. This sequence represents the
CC antithrombotic AS1051 126-mer wild-type rattlesnake protein of the
CC invention

XX
SQ Sequence 126 AA;

Query Match 98.4%; Score 684; DB 5; Length 126;
Best Local Similarity 98.4%; Pred. No. 1.5e-71;
Matches 124; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DLECPGMSSTDRCYKPFKQEMTWASARFCSEQAKGHLSEVETLSEAFVNDVLYAN 60
DB 1 DLECPGMSSTDRCYKPFKQEMTWADARFCSEQAKGHLSEVETLSEAFVNDVLYAN 60
QY 61 KEYLTRYIWIIGLRVQKNGQPCSSISYENLVDPFECFVMSRDTLRREWFKVDCEQHSFIC 120
DB 61 KEYLTRYIWIIGLRVQKNGQPCSSISYENLVDPFECFVMSRDTLRREWFKVDCEQHSFIC 120
QY 121 KFTRRPR 126
DB 121 KFTRRPR 126

RESULT 4

AA71981
ID AAR71981 standard; protein; 149 AA.

AC AAR71981;
DT 25-MAR-2003 (revised)
DT 28-NOV-1995 (first entry)

XX Snake venom antithrombotic oligopeptide.

XX Antithrombotic peptide; snake venom; platelet binding inhibition;
XX von Willebrand factor; Crotales horridus horridus.

XX Crotales horridus horridus.

XX Key Location/Qualifiers
FH Disulfide-bond 27..38
FT Disulfide-bond 55..143
FT Disulfide-bond 118..135

XX MO9508573-A1.

XX 30-MAR-1995.

XX 21-SEP-1994; 94WO-JP001555.

XX 22-SEP-1993; 93JP-00236975.

XX (AJIN) AJINOMOTO KK.

XX PI Fukuchi N, Yamamoto H, Nagano M, Kito M, Tanaka A, Ishii K,
XX PI Kobayashi T, Yoshimoto R,

XX DR WPI; 1995-139559/18.

XX DR N-PSDB; AAQ89309.

XX Single-chain antithrombotic peptide - obtained by cleaving an
PT oligopeptide from snake venom to break inter-chain di-sulphide bonds but
PT preserve intra-chain di-sulphide bonds.

XX Example 2; Page 47-48; 84pp; Japanese.

XX AAR71978 and AAR71979 are snake venom derived antithrombotic peptides,
CC specifically from the snake venom oligopeptide AAR71981, encoded by
CC AAQ89309. These peptides have the advantage of avoiding significant

CC thrombocytopenia when administered at the minimum dose, for in vivo
CC inhibition of platelet von Willebrand factor binding. (updated on 25-MAR-
CC 2003 to correct PN field.)

XX
SQ Sequence 149 AA;

Query Match 98.4%; Score 684; DB 2; Length 149;
Best Local Similarity 98.4%; Pred. No. 1.8e-71;
Matches 124; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DLECPGMSSTDRCYKPFKQEMTWASARFCSEQAKGHLSEVETLSEAFVNDVLYAN 60
DB 24 DLECPGMSSTDRCYKPFKQEMTWADARFCSEQAKGHLSEVETLSEAFVNDVLYAN 83
QY 61 KEYLTRYIWIIGLRVQKNGQPCSSISYENLVDPFECFVMSRDTLRREWFKVDCEQHSFIC 120
DB 84 KEYLTRYIWIIGLRVQKNGQPCSSISYENLVDPFECFVMSRDTLRREWFKVDCEQHSFIC 143
QY 121 KFTRRPR 126
DB 144 KFTRRPR 149

RESULT 5

AA85628
ID AAY85628 standard; protein; 149 AA.

AC AAY85628;

DT 07-FEB-2001 (first entry)

XX Snake venom derived protein.

XX Subunit peptide production; snake venom; rattlesnake; thrombolytic;
XX von Willebrand's factor; blood platelet-inhibitory activity.

XX Crotales horridus horridus.

XX MO200059926-A1.

XX 12-OCT-2000.

XX 31-MAR-2000; 2000WO-JP002127.

XX 02-APR-1999; 99JP-00096073.

XX (AJIN) AJINOMOTO CO INC.

XX PI Fukuchi N, Kageyama S, Kito M, Kayahara T, Yamamoto H;

XX DR WPI; 2000-664985/64.

XX DR N-PSDB; AAC61144.

XX Producing physiologically-active subunit peptides originating in polymer
PT proteins by denaturation and specific separation, with lower antigenicity
PT but improved solubility and stability, e.g. blood platelet-binding
PT inhibitors.

XX Example 2; Page 47; 51pp; Japanese.

XX This invention relates to a method for the production of a subunit
CC peptide originating from a polymer protein with disulphide bonds within
CC and between subunits. The method comprises denaturing the protein or its
CC subunit using a protein denaturing agent in a solution, removing the
CC agent in the presence of a polyoxalkyl polyether which reacts with a
CC thiol group and unwinds the subunit, and separating the polyoxalkyl
CC polyether-bound subunit peptide. The method can be used for producing
CC physiologically-active subunit peptides for polymer proteins e.g. snake
CC venom-originated dimer peptide with blood platelet-inhibitory activity on
CC von Willebrand's factor. The peptides produced have platelet-binding
CC inhibitory, and thrombolytic activity. The present sequence represents a
CC rattlesnake protein used in an example illustrating the method of the
CC invention

XX Sequence 149 AA;
 SQ Query Match 98.4%; Score 684; DB 3; Length 149;
 Best Local Similarity 98.4%; Pred. No. 1.8e-71;
 Matches 124; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DIECPGMSSTDRYCYKPFQKQEMTWASAEKFCSEQAKGKGLLSVETALASFDVNTLYAN 60
 DB 24 DIECPGMSSTDRYCYKPFQKQEMTWASAEKFCSEQAKGKGLLSVETALASFDVNTLYAN 83

QY 61 KEYLTRYIWIIGLRVQNKQPCSSISYENLVDFECFMSRDTLRBMFVKDCQOHSFTIC 120
 DB 84 KEYLTRYIWIIGLRVQNKQPCSSISYENLVDFECFMSRDTLRBMFVKDCQOHSFTIC 143

QY 121 KFTRRP 126
 DB 144 KFTRRP 149

RESULT 6

AAO20974
 ID AAO20974 standard; protein; 149 AA.

AC AAO20974;

DT 19-JUL-2002 (first entry)

DE 149-mer wild-type rattlesnake protein.

XX Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
 KM antithrombotic; glycoprotein Ib; long half life; low antigenicity;
 KM drug efficacy.

OS Crotales horridus horridus.

XX EPI195384-A1.

PD 10-APR-2002.

PF 04-OCT-2001; 2001EP-00123277.

PR 04-OCT-2000; 2000JP-00305279.

PA (AJIN) AJINOMOTO CO INC.

PI Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
 PI Gondoh K, Shimba N, Yamada N;

DR WPI; 2002-364482/40.

DR N-PSDB; AAK9834.

PT Glycoprotein Ib-binding protein, useful for treating thrombosis,
 PT comprises specific mutations in protein originating from snake venom.

XX Example 1; Page 26-27; 49pp; English.

XX The invention relates to a glycoprotein Ib-binding protein, originating
 CC from snake venom, comprising specific mutations and antithrombotic
 CC activity. Glycoprotein Ib-binding protein is used in a drug having
 CC antithrombotic activity. Glycoprotein Ib-binding protein has a high
 CC binding activity to glycoprotein Ib, a long half life/drug efficacy
 CC retention in blood, and low antigenicity. This sequence represents the
 CC antithrombotic 149-mer wild-type rattlesnake protein of the invention

XX Sequence 149 AA;

Query Match 98.4%; Score 684; DB 5; Length 149;

Best Local Similarity 98.4%; Pred. No. 1.8e-71;
 Matches 124; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DIECPGMSSTDRYCYKPFQKQEMTWASAEKFCSEQAKGKGLLSVETALASFDVNTLYAN 60
 DB 1 DIECPGMSSTDRYCYKPFQKQEMTWASAEKFCSEQAKGKGLLSVETALASFDVNTLYAN 60

DB 24 DIECPGMSSTDRYCYKPFQKQEMTWASAEKFCSEQAKGKGLLSVETALASFDVNTLYAN 83
 QY 61 KEYLTRYIWIIGLRVQNKQPCSSISYENLVDFECFMSRDTLRBMFVKDCQOHSFTIC 120
 DB 84 KEYLTRYIWIIGLRVQNKQPCSSISYENLVDFECFMSRDTLRBMFVKDCQOHSFTIC 143

QY 121 KFTRRP 126
 DB 144 KFTRRP 149

RESULT 7

AAO20983
 ID AAO20983 standard; protein; 126 AA.

AC AAO20983;

DT 19-JUL-2002 (first entry)

DE M10-G4 K61A mutant of the antithrombotic rattlesnake protein.

XX Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
 KM antithrombotic; glycoprotein Ib; long half life; low antigenicity;
 KM drug efficacy; mutant; mutein.

OS Crotales horridus horridus.
 OS Synthetic.

FT Key Location/Qualifiers

FT Misc-difference 61 /note="wild-type Lys substituted by Ala"

XX EPI195384-A1.

PD 10-APR-2002.

PF 04-OCT-2001; 2001EP-00123277.

PR 04-OCT-2000; 2000JP-00305279.

PA (AJIN) AJINOMOTO CO INC.

PI Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
 PI Gondoh K, Shimba N, Yamada N;

DR WPI; 2002-364482/40.

PT Glycoprotein Ib-binding protein, useful for treating thrombosis,
 PT comprises specific mutations in protein originating from snake venom.

XX Example 4; Page; 49pp; English.

XX The invention relates to a glycoprotein Ib-binding protein, originating
 CC from snake venom, comprising specific mutations and antithrombotic
 CC activity. Glycoprotein Ib-binding protein is used in a drug having
 CC antithrombotic activity. Glycoprotein Ib-binding protein has a high
 CC binding activity to glycoprotein Ib, a long half life/drug efficacy
 CC retention in blood, and low antigenicity. This sequence represents the
 CC K61A mutant of the antithrombotic AS1051 126-mer wild-type rattlesnake
 CC protein of the invention. NOTE: This mutant protein sequence is not shown
 CC in the specification. It has been created from information provided in
 CC Example 4

XX Sequence 126 AA;

Query Match 97.6%; Score 678; DB 5; Length 126;

Best Local Similarity 97.6%; Pred. No. 7.4e-71;
 Matches 123; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DIECPGMSSTDRYCYKPFQKQEMTWASAEKFCSEQAKGKGLLSVETALASFDVNTLYAN 60
 DB 1 DIECPGMSSTDRYCYKPFQKQEMTWASAEKFCSEQAKGKGLLSVETALASFDVNTLYAN 60

QY 121 KFTRR 126
 DB 121 KFTRR 126

RESULT 10

AAO20991
 ID AAO20991 standard; protein; 126 AA.

AC AAO20991;
 DT 19-JUL-2002 (first entry)

DE M18-G4 R105A mutant of the antithrombotic rattlesnake protein.

KW Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
 KM antithrombotic; glycoprotein Ib; long half life; low antigenicity;
 KM drug efficacy; mutant; mutein.

OS Crotaeus horridus horridus.
 OS Synthetic.

Key Location/Qualifiers
 FT Misc-difference 105 /note="Wild-type Arg substituted by Ala"

PN EPI195384-A1.

PD 10-APR-2002.

PF 04-OCT-2001; 2001EP-00123277.

PR 04-OCT-2000; 2000JP-00305279.

PA (AJIN) AJINOMOTO CO INC.

PI Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
 PI Gondo K, Shimba N, Yamada N;

DR MPI; 2002-364482/40.

PT Glycoprotein Ib-binding protein, useful for treating thrombosis,
 PT comprises specific mutations in protein originating from snake venom.

PS Example 4; Page; 49pp; English.

CC The invention relates to a glycoprotein Ib-binding protein, originating
 CC from snake venom, comprising specific mutations and antithrombotic
 CC activity. Glycoprotein Ib-binding protein is used in a drug having
 CC antithrombotic activity. Glycoprotein Ib-binding protein has a high
 CC binding activity to glycoprotein Ib, a long half life/drug efficacy
 CC retention in blood, and low antigenicity. This sequence represents the
 CC R105A mutant of the antithrombotic AS1051 126-mer wild-type rattlesnake
 CC protein of the invention. NOTE: This mutant protein sequence is not shown
 CC in the specification. It has been created from information provided in
 CC Example 4

SQ Sequence 126 AA;

Query Match 97.6%; Score 678; DB 5; Length 126;
 Best Local Similarity 97.6%; Pred. No. 7,4e-71;
 Matches 123; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DLECPGMSSTDRYCYKPFKQEMTWASAEKFCSEQAKGHLISVETALASFPVDNVLVYAN 60
 DB 1 DLECPGMSSTDRYCYKPFKQEMTWADAEKFCSEQAKGHLISVETALASFPVDNVLVYAN 60
 QY 61 KEYLTRYIWIIGLRVQKKGPCSSISYENLVDPFECFMSADTRLRLRMFKVDCQOHSFIC 120
 DB 61 KEYLTRYIWIIGLRVQKKGPCSSISYENLVDPFECFMSADTRLRLRMFKVDCQOHSFIC 120
 QY 121 KFTRR 126
 DB 121 KFTRR 126

DB 121 KFTRR 126

RESULT 11

AAO20988
 ID AAO20988 standard; protein; 126 AA.

AC AAO20988;
 DT 19-JUL-2002 (first entry)

DE M15-G4 R100A mutant of the antithrombotic rattlesnake protein.

KW Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
 KM antithrombotic; glycoprotein Ib; long half life; low antigenicity;
 KM drug efficacy; mutant; mutein.

OS Crotaeus horridus horridus.
 OS Synthetic.

Key Location/Qualifiers
 FT Misc-difference 100 /note="Wild-type Arg substituted by Ala"

PN EPI195384-A1.

PD 10-APR-2002.

PF 04-OCT-2001; 2001EP-00123277.

PR 04-OCT-2000; 2000JP-00305279.

PA (AJIN) AJINOMOTO CO INC.

PI Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
 PI Gondo K, Shimba N, Yamada N;

DR MPI; 2002-364482/40.

PT Glycoprotein Ib-binding protein, useful for treating thrombosis,
 PT comprises specific mutations in protein originating from snake venom.

PS Example 4; Page; 49pp; English.

CC The invention relates to a glycoprotein Ib-binding protein, originating
 CC from snake venom, comprising specific mutations and antithrombotic
 CC activity. Glycoprotein Ib-binding protein is used in a drug having
 CC antithrombotic activity. Glycoprotein Ib-binding protein has a high
 CC binding activity to glycoprotein Ib, a long half life/drug efficacy
 CC retention in blood, and low antigenicity. This sequence represents the
 CC R100A mutant of the antithrombotic AS1051 126-mer wild-type rattlesnake
 CC protein of the invention. NOTE: This mutant protein sequence is not shown
 CC in the specification. It has been created from information provided in
 CC Example 4

SQ Sequence 126 AA;

Query Match 97.6%; Score 678; DB 5; Length 126;
 Best Local Similarity 97.6%; Pred. No. 7,4e-71;
 Matches 123; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DLECPGMSSTDRYCYKPFKQEMTWASAEKFCSEQAKGHLISVETALASFPVDNVLVYAN 60
 DB 1 DLECPGMSSTDRYCYKPFKQEMTWADAEKFCSEQAKGHLISVETALASFPVDNVLVYAN 60
 QY 61 KEYLTRYIWIIGLRVQKKGPCSSISYENLVDPFECFMSADTRLRLRMFKVDCQOHSFIC 120
 DB 61 KEYLTRYIWIIGLRVQKKGPCSSISYENLVDPFECFMSADTRLRLRMFKVDCQOHSFIC 120
 QY 121 KFTRR 126
 DB 121 KFTRR 126

RESULT 12

AAO20980 standard; protein; 126 AA.

AAO20980;

19-JUL-2002 (first entry)

M7-G4 K20A mutant of the antithrombotic rattlesnake protein.

Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake; antithrombotic; glycoprotein Ib; long half life; low antigenicity; drug efficacy; mutant; mutein.

Crotaeus horridus horridus.

Synthetic.

Key Location/Qualifiers

FT Misc-difference 20 /note= "Wild-type Lys substituted by Ala"

EP1195384-A1.

10-APR-2002.

04-OCT-2001; 2001EP-00123277.

04-OCT-2000; 2000JP-00305279.

(AJIN) AJINOMOTO CO INC.

Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;

Gondoh K, Shima N, Yamada N;

WPI; 2002-364482/40.

Glycoprotein Ib-binding protein, useful for treating thrombosis, comprises specific mutations in protein originating from snake venom.

Example 4; Page; 49pp; English.

The invention relates to a glycoprotein Ib-binding protein, originating from snake venom, comprising specific mutations and antithrombotic activity. Glycoprotein Ib-binding protein is used in a drug having antithrombotic activity. Glycoprotein Ib-binding protein has a high binding activity to glycoprotein Ib, a long half life/drug efficacy retention in blood, and low antigenicity. This sequence represents the K20A mutant of the antithrombotic AS1051 126-mer wild-type rattlesnake protein of the invention. NOTE: This mutant protein sequence is not shown in the specification. It has been created from information provided in Example 4

Sequence 126 AA;

Query Match 97.6%; Score 678; DB 5; Length 126;

Best Local Similarity 97.6%; Pred. No. 7.4e-71; Matches 123; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DLECPGMSSTDRYCYKPKQKMTWASARFCSEQAKGHLSEVETALASFDVNLVYAN 60
DB 1 DLECPGMSSTDRYCYKPKQKMTWADAEFCSEQAKGHLSEVETALASFDVNLVYAN 60
QY 61 KEVLTYYIWIIGLAVONKQGPCSSISYENLVDPCECFMVSBDTRLREMFVKDCQOHSFIC 120
DB 61 KEVLTYYIWIIGLAVONKQGPCSSISYENLVDPCECFMVSBDTRLREMFVKDCQOHSFIC 120
QY 121 KFTTRPR 126
DB 121 KFTTRPR 126

RESULT 13

AAO20984 standard; protein; 126 AA.

AAO20984;

19-JUL-2002 (first entry)

M11-G4 B62A mutant of the antithrombotic rattlesnake protein.

Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake; antithrombotic; glycoprotein Ib; long half life; low antigenicity; drug efficacy; mutant; mutein.

Crotaeus horridus horridus.

Synthetic.

Key Location/Qualifiers

FT Misc-difference 62 /note= "Wild-type Glu substituted by Ala"

EP1195384-A1.

10-APR-2002.

04-OCT-2001; 2001EP-00123277.

04-OCT-2000; 2000JP-00305279.

(AJIN) AJINOMOTO CO INC.

Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;

Gondoh K, Shima N, Yamada N;

WPI; 2002-364482/40.

Glycoprotein Ib-binding protein, useful for treating thrombosis, comprises specific mutations in protein originating from snake venom.

Example 4; Page; 49pp; English.

The invention relates to a glycoprotein Ib-binding protein, originating from snake venom, comprising specific mutations and antithrombotic activity. Glycoprotein Ib-binding protein is used in a drug having antithrombotic activity. Glycoprotein Ib-binding protein has a high binding activity to glycoprotein Ib, a long half life/drug efficacy retention in blood, and low antigenicity. This sequence represents the B62A mutant of the antithrombotic AS1051 126-mer wild-type rattlesnake protein of the invention. NOTE: This mutant protein sequence is not shown in the specification. It has been created from information provided in Example 4

Sequence 126 AA;

Query Match 97.6%; Score 678; DB 5; Length 126;

Best Local Similarity 97.6%; Pred. No. 7.4e-71; Matches 123; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DLECPGMSSTDRYCYKPKQKMTWASARFCSEQAKGHLSEVETALASFDVNLVYAN 60
DB 1 DLECPGMSSTDRYCYKPKQKMTWADAEFCSEQAKGHLSEVETALASFDVNLVYAN 60
QY 61 KEVLTYYIWIIGLAVONKQGPCSSISYENLVDPCECFMVSBDTRLREMFVKDCQOHSFIC 120
DB 61 KEVLTYYIWIIGLAVONKQGPCSSISYENLVDPCECFMVSBDTRLREMFVKDCQOHSFIC 120
QY 121 KFTTRPR 126
DB 121 KFTTRPR 126

RESULT 14

AAO20992 standard; protein; 126 AA.

```
XX AC AAO20992;
XX DT 19-JUL-2002 (first entry)
XX DE M19-G4 B106A mutant of the antithrombotic rattlesnake protein.
XX KM Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
XX KM antithrombotic; glycoprotein Ib; long half life; low antigenicity;
XX KM drug efficacy; mutant; mutein.
XX OS Crotales horridus horridus.
XX OS Synthetic.
XX FH Key Location/Qualifiers
XX FT M19-G4 difference 106 /note="Wild-type Glu substituted by Ala"
XX FT
XX PN EP1195384-A1.
XX PD 10-APR-2002.
XX PF 04-OCT-2001; 2001EP-00123277.
XX PR 04-OCT-2000; 2000JP-00305279.
XX PA (AJIN ) AJINOMOTO CO INC.
XX PI Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
XX PI Gondoh K, Shimada N, Yamada N;
XX DR WPI; 2002-364482/40.
XX PT Glycoprotein Ib-binding protein, useful for treating thrombosis,
XX PS comprises specific mutations in protein originating from snake venom.
XX Example 4; Page: 49pp; English.
XX CC The invention relates to a glycoprotein Ib-binding protein, originating
XX CC from snake venom, comprising specific mutations and antithrombotic
XX CC activity. Glycoprotein Ib-binding protein is used in a drug having
XX CC antithrombotic activity. Glycoprotein Ib-binding protein has a high
XX CC binding activity to glycoprotein Ib, a long half life/drug efficacy
XX CC retention in blood, and low antigenicity. This sequence represents the
XX CC B106A mutant of the antithrombotic AS1051 126-mer wild-type rattlesnake
XX CC protein of the invention. NOTE: This mutant protein sequence is not shown
XX CC in the specification. It has been created from information provided in
XX CC Example 4
XX SQ Sequence 126 AA;
XX
XX Query Match 97.6%; Score 678; DB 5; Length 126;
XX Best Local Similarity 97.6%; Pred. No. 7.4e-71;
XX Matches 123; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 1 DIECPGMSSTDRYCYKPKFQKQEMTWASAEFCSEQAKGHLISVETALASFPVDNLYAN 60
XX DB 1 DIECPGMSSTDRYCYKPKFQKQEMTWADAEFCSEQAKGHLISVETALASFPVDNLYAN 60
XX QY 61 KEYLTRYIWIIGLRVQKQPCSSISYENLVDPFECFVMSRDTLRREMFKVDCEQCHSFIC 120
XX DB 61 KEYLTRYIWIIGLRVQKQPCSSISYENLVDPFECFVMSRDTLRREMFKVDCEQCHSFIC 120
XX QY 121 KFTTRPR 126
XX DB 121 KFTTRPR 126
XX
XX RESULT 15
XX ID AAO20989 standard; protein; 126 AA.
XX AC AAO20989;
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XX DT 19-JUL-2002 (first entry)
XX DE M16-G4 D101A mutant of the antithrombotic rattlesnake protein.
XX KM Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
XX KM antithrombotic; glycoprotein Ib; long half life; low antigenicity;
XX KM drug efficacy; mutant; mutein.
XX OS Crotales horridus horridus.
XX OS Synthetic.
XX FH Key Location/Qualifiers
XX FT M16-G4 difference 101 /note="Wild-type Asp substituted by Ala"
XX FT
XX PN EP1195384-A1.
XX PD 10-APR-2002.
XX PF 04-OCT-2001; 2001EP-00123277.
XX PR 04-OCT-2000; 2000JP-00305279.
XX PA (AJIN ) AJINOMOTO CO INC.
XX PI Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
XX PI Gondoh K, Shimada N, Yamada N;
XX DR WPI; 2002-364482/40.
XX PT Glycoprotein Ib-binding protein, useful for treating thrombosis,
XX PS comprises specific mutations in protein originating from snake venom.
XX Example 4; Page: 49pp; English.
XX CC The invention relates to a glycoprotein Ib-binding protein, originating
XX CC from snake venom, comprising specific mutations and antithrombotic
XX CC activity. Glycoprotein Ib-binding protein is used in a drug having
XX CC antithrombotic activity. Glycoprotein Ib-binding protein has a high
XX CC binding activity to glycoprotein Ib, a long half life/drug efficacy
XX CC retention in blood, and low antigenicity. This sequence represents the
XX CC D101A mutant of the antithrombotic AS1051 126-mer wild-type rattlesnake
XX CC protein of the invention. NOTE: This mutant protein sequence is not shown
XX CC in the specification. It has been created from information provided in
XX CC Example 4
XX SQ Sequence 126 AA;
XX
XX Query Match 97.3%; Score 676; DB 5; Length 126;
XX Best Local Similarity 97.6%; Pred. No. 1.3e-70;
XX Matches 123; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 1 DIECPGMSSTDRYCYKPKFQKQEMTWASAEFCSEQAKGHLISVETALASFPVDNLYAN 60
XX DB 1 DIECPGMSSTDRYCYKPKFQKQEMTWADAEFCSEQAKGHLISVETALASFPVDNLYAN 60
XX QY 61 KEYLTRYIWIIGLRVQKQPCSSISYENLVDPFECFVMSRDTLRREMFKVDCEQCHSFIC 120
XX DB 61 KEYLTRYIWIIGLRVQKQPCSSISYENLVDPFECFVMSRDTLRREMFKVDCEQCHSFIC 120
XX QY 121 KFTTRPR 126
XX DB 121 KFTTRPR 126
XX
XX RESULT 16
XX ID AAO20993 standard; protein; 126 AA.
XX AC AAO20993;
XX DT 19-JUL-2002 (first entry)
```

XX M20-G4 F108A mutant of the antithrombotic rattlesnake protein.
DE Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
XX antithrombotic; glycoprotein Ib; long half life; low antigenicity;
KM drug efficacy; mutant; mutein.
XX Crocalus horridus horridus.
OS Synthetic.
XX Key Location/Qualifiers
FH Misc-difference 108 /note= "Wild-type Phe substituted by Ala"
FT
XX EPI195384-A1.
XX 10-APR-2002.
XX 04-OCT-2001; 2001EP-00123277.
XX 04-OCT-2000; 2000JP-00305279.
XX (AJIN) AJINOMOTO CO INC.
XX Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
XX Gondoh K, Shimba N, Yamada N;
XX WPI; 2002-364482/40.
XX Glycoprotein Ib-binding protein, useful for treating thrombosis,
PT comprises specific mutations in protein originating from snake venom.
XX Example 4; Page; 49pp; English.
XX The invention relates to a glycoprotein Ib-binding protein, originating
CC from snake venom, comprising specific mutations and antithrombotic
CC activity. Glycoprotein Ib-binding protein is used in a drug having
CC antithrombotic activity. Glycoprotein Ib-binding protein has a high
CC binding activity to glycoprotein Ib, a long half life/drug efficacy
CC retention in blood, and low antigenicity. This sequence represents the
CC F108A mutant of the antithrombotic AS1051 126-mer wild-type rattlesnake
CC protein of the invention. NOTE: This mutant protein sequence is not shown
CC in the specification. It has been created from information provided in
CC Example 4
XX
SQ Sequence 126 AA;
Query Match 97.3%; Score 676; DB 5; Length 126;
Best Local Similarity 97.6%; Pred. No. 1.3e-70;
Matches 123; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 DLECPGMSSTDYCYKPFQKQEMTWASARFCSEQAKGHLISVETRLAESFVDNYLYAN 60
DB 1 DLECPGMSSTDYCYKPFQKQEMTWADARFCSEQAKGHLISVETRLAESFVDNYLYAN 60
QY 61 KEVLTYYIWIIGLVONKQGPCSSISYENLVDPPECFVNSDTRLREMFKYDCQOHSFIC 120
DB 61 KEVLTYYIWIIGLVONKQGPCSSISYENLVDPPECFVNSDTRLREMFKYDCQOHSFIC 120
QY 121 KFTRR 126
DB 121 KFTRR 126
RESULT 17
AAO20981 standard; protein; 126 AA.
XX
AC AAO20981;
XX
DT 19-JUL-2002 (first entry)
XX
DE M8-G4 D54A mutant of the antithrombotic rattlesnake protein.

XX Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
KM antithrombotic; glycoprotein Ib; long half life; low antigenicity;
XX drug efficacy; mutant; mutein.
XX Crocalus horridus horridus.
OS Synthetic.
XX Key Location/Qualifiers
FH Misc-difference 54 /note= "Wild-type Asp substituted by Ala"
FT
XX EPI195384-A1.
XX 10-APR-2002.
XX 04-OCT-2001; 2001EP-00123277.
XX 04-OCT-2000; 2000JP-00305279.
XX (AJIN) AJINOMOTO CO INC.
XX Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
XX Gondoh K, Shimba N, Yamada N;
XX WPI; 2002-364482/40.
XX Glycoprotein Ib-binding protein, useful for treating thrombosis,
PT comprises specific mutations in protein originating from snake venom.
XX Example 4; Page; 49pp; English.
XX The invention relates to a glycoprotein Ib-binding protein, originating
CC from snake venom, comprising specific mutations and antithrombotic
CC activity. Glycoprotein Ib-binding protein is used in a drug having
CC antithrombotic activity. Glycoprotein Ib-binding protein has a high
CC binding activity to glycoprotein Ib, a long half life/drug efficacy
CC retention in blood, and low antigenicity. This sequence represents the
CC D54A mutant of the antithrombotic AS1051 126-mer wild-type rattlesnake
CC protein of the invention. NOTE: This mutant protein sequence is not shown
CC in the specification. It has been created from information provided in
CC Example 4
XX
SQ Sequence 126 AA;
Query Match 97.3%; Score 676; DB 5; Length 126;
Best Local Similarity 97.6%; Pred. No. 1.3e-70;
Matches 123; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 DLECPGMSSTDYCYKPFQKQEMTWASARFCSEQAKGHLISVETRLAESFVDNYLYAN 60
DB 1 DLECPGMSSTDYCYKPFQKQEMTWADARFCSEQAKGHLISVETRLAESFVDNYLYAN 60
QY 61 KEVLTYYIWIIGLVONKQGPCSSISYENLVDPPECFVNSDTRLREMFKYDCQOHSFIC 120
DB 61 KEVLTYYIWIIGLVONKQGPCSSISYENLVDPPECFVNSDTRLREMFKYDCQOHSFIC 120
QY 121 KFTRR 126
DB 121 KFTRR 126
RESULT 18
AAO20985 standard; protein; 126 AA.
XX
AC AAO20985;
XX
DT 19-JUL-2002 (first entry)
XX
DE M12-G4 Y63A mutant of the antithrombotic rattlesnake protein.
XX Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;

KM antithrombotic; glycoprotein Ib; long half life; low antigenicity;
XX drug efficacy; mutant; mutein.
OS Crotales horridus horridus.
OS Synthetic.
FH Key Location/Qualifiers
FT Misc-difference 63 /note="Wild-type Tyr substituted by Ala"
XX
XX EPI195384-A1.
XX
XX 10-APR-2002.
XX
XX 04-OCT-2001; 2001EP-00123277.
XX
XX 04-OCT-2000; 2000JP-00305279.
XX
XX (AJIN) AJINOMOTO CO INC.
XX
XX Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
XX Gondoh K, Shimba N, Yamada N;
XX WPI; 2002-364482/40.
XX
XX Glycoprotein Ib-binding protein, useful for treating thrombosis,
PT comprises specific mutations in protein originating from snake venom.
XX
XX Example 4; Page: 49pp; English.
XX
XX The invention relates to a glycoprotein Ib-binding protein, originating
CC from snake venom, comprising specific mutations and antithrombotic
CC activity. Glycoprotein Ib-binding protein is used in a drug having
CC antithrombotic activity. Glycoprotein Ib-binding protein has a high
CC binding activity to glycoprotein Ib; a long half life/drug efficacy
CC retention in blood, and low antigenicity. This sequence represents the
CC Y63A mutant of the antithrombotic AS1051 126-mer wild-type rattlesnake
CC protein of the invention. NOTE: This mutant protein sequence is not shown
CC in the specification. It has been created from information provided in
XX Example 4
XX
SQ Sequence 126 AA;
XX
XX
XX Query Match 97.1%; Score 675; DB 5; Length 126;
XX Best Local Similarity 97.6%; Pred. No. 1.6e-70;
XX Matches 123; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 1 DLECPGSGMSSTRYCYKPFKQEMTWASAEKPCSEQAKGHLISVETALASFDVNLVYAN 60
XX 1 DLECPGSGMSSTRYCYKPFKQEMTWADAEKPCSEQAKGHLISVETALASFDVNLVYAN 60
XX
XX Db 61 KEVLTIRYIWIGLRVQNKGPCSSISYENLVDPCECFMVSRDTRLREMFVDCQOHSFIC 120
XX 61 KEVLTIRYIWIGLRVQNKGPCSSISYENLVDPCECFMVSRDTRLREMFVDCQOHSFIC 120
XX
XX QY 121 KFTTRPR 126
XX 121 KFTTRPR 126
XX
XX Db 121 KFTTRPR 126
XX 121 KFTTRPR 126
XX
XX
XX RESULT 19
XX AAO20987
XX ID AAO20987 standard; protein; 126 AA.
XX
XX AC AAO20987;
XX
XX 19-JUL-2002 (first entry)
XX
XX M4-G4 Y67A mutant of the antithrombotic rattlesnake protein.
XX
XX Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
KM antithrombotic; glycoprotein Ib; long half life; low antigenicity;
KM drug efficacy; mutant; mutein.
XX

XX
XX Crotales horridus horridus.
OS Synthetic.
FH Key Location/Qualifiers
FT Misc-difference 67 /note="Wild-type Tyr substituted by Ala"
XX
XX EPI195384-A1.
XX
XX 10-APR-2002.
XX
XX 04-OCT-2001; 2001EP-00123277.
XX
XX 04-OCT-2000; 2000JP-00305279.
XX
XX (AJIN) AJINOMOTO CO INC.
XX
XX Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
XX Gondoh K, Shimba N, Yamada N;
XX WPI; 2002-364482/40.
XX
XX Glycoprotein Ib-binding protein, useful for treating thrombosis,
PT comprises specific mutations in protein originating from snake venom.
XX
XX Example 4; Page: 49pp; English.
XX
XX The invention relates to a glycoprotein Ib-binding protein, originating
CC from snake venom, comprising specific mutations and antithrombotic
CC activity. Glycoprotein Ib-binding protein is used in a drug having
CC antithrombotic activity. Glycoprotein Ib-binding protein has a high
CC binding activity to glycoprotein Ib; a long half life/drug efficacy
CC retention in blood, and low antigenicity. This sequence represents the
CC Y67A mutant of the antithrombotic AS1051 126-mer wild-type rattlesnake
CC protein of the invention. NOTE: This mutant protein sequence is not shown
CC in the specification. It has been created from information provided in
XX Example 4
XX
SQ Sequence 126 AA;
XX
XX
XX Query Match 97.1%; Score 675; DB 5; Length 126;
XX Best Local Similarity 97.6%; Pred. No. 1.6e-70;
XX Matches 123; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 1 DLECPGSGMSSTRYCYKPFKQEMTWASAEKPCSEQAKGHLISVETALASFDVNLVYAN 60
XX 1 DLECPGSGMSSTRYCYKPFKQEMTWADAEKPCSEQAKGHLISVETALASFDVNLVYAN 60
XX
XX Db 61 KEVLTIRYIWIGLRVQNKGPCSSISYENLVDPCECFMVSRDTRLREMFVDCQOHSFIC 120
XX 61 KEVLTIRYIWIGLRVQNKGPCSSISYENLVDPCECFMVSRDTRLREMFVDCQOHSFIC 120
XX
XX QY 121 KFTTRPR 126
XX 121 KFTTRPR 126
XX
XX Db 121 KFTTRPR 126
XX 121 KFTTRPR 126
XX
XX
XX RESULT 20
XX AAO20982
XX ID AAO20982 standard; protein; 126 AA.
XX
XX AC AAO20982;
XX
XX 19-JUL-2002 (first entry)
XX
XX M9-G4 Y58A mutant of the antithrombotic rattlesnake protein.
XX
XX Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
KM antithrombotic; glycoprotein Ib; long half life; low antigenicity;
KM drug efficacy; mutant; mutein.
OS Crotales horridus horridus.
XX

OS	Synthetic.
XX	
FH	Key Location/Qualifiers
FT	Misc-difference 58 /note= "wild-type Tyr substituted by Ala"
FN	
PN	EPI195384-Al.
XX	
PD	10-APR-2002.
XX	
PF	04-OCT-2001; 2001EP-00123277.
XX	
PR	04-OCT-2000; 2000JP-00305279.
XX	
PA	(AJIN) AJINOMOTO CO INC.
XX	
PI	Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
PI	Gondoh K, Shimba N, Yamada N;
XX	
DR	WPI; 2002-364482/40.
PT	
PS	Glycoprotein Ib-binding protein, useful for treating thromboeis,
XX	comprises specific mutations in protein originating from snake venom.
XX	
PS	Example 4; Page; 49pp; English.
CC	
CC	The invention relates to a glycoprotein Ib-binding protein, originating
CC	from snake venom, comprising specific mutations and antithrombotic
CC	activity. Glycoprotein Ib-binding protein is used in a drug having
CC	antithrombotic activity. Glycoprotein Ib-binding protein has a high
CC	binding activity to glycoprotein Ib, a long half life/drug efficacy
CC	retention in blood, and low antigenicity. This sequence represents the
CC	Y58A mutant of the antithrombotic AS1051 126-mer wild-type rattlesnake
CC	protein of the invention. NOTE: This mutant protein sequence is not shown
CC	in the specification. It has been created from information provided in
CC	Example 4
SO	
XX	
Sequence 126 AA;	
Query Match	97.1%; Score 675; DB 5; Length 126;
Best Local Similarity	97.6%; Pred. No. 1.6e-70;
Matches 123; Conservative	0; Mismatches 3; Indels 0; Gaps 0
DQ	1 DLECPGMSSTDRYYCKPKQEMTWASAEKFCSEDAKGGHLISVETALBASFVDNVLVAN 60
DB	1 DLECPSGMSSYDRYCYPFKQEMTWADABRFCSQAQGGHLISVETALEASFVDNVLAAN 60
DQ	61 KEYLTRYIWIIGIRVNKKPCSSISEYENVDPFECPMWSRDRLAKEMFPVDEOQHSPIC 120
DB	61 KEYLTRYIWIIGIRVNKKPCSSISEYENVLPDFECPMWSRDRLAKEMFPVDEOQHSPIC 120
DQ	121 KETRPR 126
DB	121 KETRPR 126
RESULT 21	
ID	AAO20998 standard; protein; 126 AA.
XX	
AC	AAO20998;
XX	
DT	19-JUL-2002 (first entry)
XX	
DE	M25-G4 D101A, E106Q mutant of antithrombotic rattlesnake protein.
XX	
KW	Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
KW	antithrombotic; glycoprotein Ib; long half life; low antigenicity;
KW	drug efficacy; mutant; mutein.
XX	
OS	Crotalus horridus horridus.
OS	Synthetic.
XX	

FH	Key	Location/Qualifiers
FT	Misc-difference	101
FT	Misc-difference	/note= "Wild-type Asp substituted by Ala"
FT	Misc-difference	106
FT	Misc-difference	/note= "Wild-type Glu substituted by Gln"
XX		
PN	EPI195384-AL.	
XX		
PD	10-APR-2002.	
XX		
PF	04-OCT-2001; 2001EP-00123277.	
XX		
PR	04-OCT-2000; 2000JP-00305279.	
PA	(AJIN) AJINOMOTO CO INC.	
XX		
PI	Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E,	
PI	Gordon K, Shimba N, Yamada N;	
DR	WPI; 2002-364482/40.	
PT	Glycoprotein Ib-binding protein, useful for treating thrombosis,	
PT	comprises specific mutations in protein originating from snake venom.	
XX		
PS	Example 6; Page; 49pp; English.	
CC	The invention relates to a glycoprotein Ib-binding protein, originating	
CC	from snake venom, comprising specific mutations and antithrombotic	
CC	activity. Glycoprotein Ib-binding protein is used in a drug having	
CC	antithrombotic activity. Glycoprotein Ib-binding protein has a high	
CC	binding activity to glycoprotein Ib, a long half life/drug efficacy	
CC	retention in blood, and low antigenicity. This sequence represents the	
CC	D10LA, E106Q mutant of the antithrombotic AS1051 126-mer wild-type	
CC	rattlesnake protein of the invention. NOTE: This mutant protein sequence	
CC	is not shown in the specification. It has been created from information	
XX	provided in Example 6	
SQ	Sequence 126 AA:	
	Query Match	96.8%; Score 673; DB 5; Length 126;
	Best Local Similarity	96.8%; Pred. No. 2.8e-70;
	Matches 122; Conservative 1; Mismatches 3; Indels 0; Gaps 0;	
QY	1 DLECPGMSSTRDYCYKPKQEMTWASAEPCFCSOAKGGHLLSVETALEASFVDNVLTYAN	60
DB	1 DLECPSGMSSYDRCYCYPFKQEMTWADAEPCFSOAKGGHLLSVETALEASFVDNVLTYAN	60
QY	61 KEYITRTIWIIGLRYONKGPPCSSISYENLVDPFCFWVSRTPLRLREWXYDNCEQHSTIC	120
DB	61 KEYITRTIWIIGLRYONKGPPCSSISYENLVDPFCFWVSRTPLRLREWXYDNCEQHSTIC	120
QY	121 KFTTRP 126	
DB	121 KFTTRP 126	
RESULT 22		
ID	AAO20996	
AC	AAO20996 standard; protein; 126 AA.	
XX		
DT	19-JUL-2002 (first entry)	
DE	M23-G4 D54N, D10LA mutant of antithrombotic rattlesnake protein.	
XX		
KW	Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;	
KW	antithrombotic; glycoprotein Ib; long half life; low antigenicity;	
XX	drug efficacy; mutant; mutein.	
OS	Crotalus horridus horridus.	
OS	Synthetic.	

FN	Key	Location/Qualifiers
FT	Misc-difference	54
FT	Misc-difference	/note= "Wild-type Asp substituted by Asn"
FT	Misc-difference	101
FT	Misc-difference	/note= "Wild-type Asp substituted by Ala"
PN	Ep1195384-A1.	
XX	10-APR-2002.	
XX	04-OCT-2001; 2001EP-00123277.	
PF	04-OCT-2000; 2000JP-00305279.	
XX	(AJIN) AJINOMOTO CO INC.	
XX	Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;	
PI	Gordon K, Shimba N, Yamada N;	
XX	WPI; 2002-364482/40.	
DR	Glycoprotein Ib-binding protein, useful for treating thrombosis.	
PT	comprises specific mutations in protein originating from snake venom.	
XX	Example 6; Page; 49pp; English.	
PS	The invention relates to a glycoprotein Ib-binding protein, originating	
CC	from snake venom, comprising specific mutations and antithrombotic	
CC	activity. Glycoprotein Ib-binding protein is used in a drug having	
CC	antithrombotic activity. Glycoprotein Ib-binding protein has a high	
CC	binding activity to glycoprotein Ib, a long half life/drug efficacy	
CC	reantion in blood, and low antigenicity. This sequence represents the	
CC	D54N, D101A mutant of the antithrombotic ASI051126-wer wild-type	
CC	rattlesnake protein of the invention. NOTE: This mutant protein sequence	
CC	is not shown in the specification. It has been created from information	
CC	provided in Example 6	
XX	Sequence 126 AA;	
SQ		
Query Match	96.5%; Score 671; DB 5; Length 126;	
Best Local Similarity	96.8%; Pred. No. 4.8e-70;	
Matches 122; Conservative 1; Mismatches 3; Indels 0; Gaps 0;		
QY	1 DLECGSSSDRYCYKPEKQEMTASAEPCSEQAGHILSVTALEASPVNVLYAN 60	
DB	1 DLECGSSSYDRYCKPKPKQEMTWADBRPCSEQAGHILSVTALEASPVNVLYAN 60	
QY	61 KEYLTRYIMIGLRVONKQPCSSISYENLVDPFECFPMVSRDTRLREMPKVDCEQHSFIC 120	
DB	61 KEYLRYIMIGLRVONKQPCSSISYENLVDPFECFPMVSRATRLREMPKVDCEQHSFIC 120	
QY	121 KFTPRR 126	
DB	121 KFTPRR 126	
RESULT 23		
AAO20999	standard; protein; 126 AA.	
XX	AAO20999;	
XX	19-JUL-2002 (first entry)	
DE	M26-G4 D101A, E106A mutant of antithrombotic rattlesnake protein.	
XX	Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;	
KW	antithrombotic; glycoprotein Ib; long half life; low antigenicity;	
KW	drug efficacy; mutant; mutein.	
OS	Crotalus horridus horridus.	
OS	Synthetic.	
XX		

PH	Key	Location/Qualifiers
FT	Misc-difference 101	
FT	Misc-difference 106	/note= "Wild-type Asp substituted by Ala"
FT	Misc-difference 106	/note= "Wild-type Glu substituted by Ala"
XX		
PN	EP1195384-Al.	
XX		
PD	10-APR-2002.	
XX		
PF	04-OCT-2001; 2001EP-00123277.	
XX		
PR	04-OCT-2000; 2000JP-00305279.	
XX		
PA	(AJIN) AJINOMOTO CO INC.	
XX		
PI	Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E,	
PI	Gordon K, Shimada N, Yamada N;	
XX		
DR	WPI; 2002-364482/40.	
XX		
PT	Glycoprotein Ib-binding protein, useful for treating thrombosis,	
PT	comprises specific mutations in protein originating from snake venom.	
XX		
ES	Example 6; Page; 49pp; English.	
XX		
CC	The invention relates to a glycoprotein Ib-binding protein, originating	
CC	from snake venom, comprising specific mutations and antithrombotic	
CC	activity. Glycoprotein Ib-binding protein is used in a drug having	
CC	antithrombotic activity. Glycoprotein Ib-binding protein has a high	
CC	binding activity to glycoprotein Ib, a long half life/drug efficacy	
CC	retention in blood, and low antigenicity. This sequence represents the	
CC	D101A, E106A mutant of the antithrombotic AS1051 126-mer wild-type	
CC	rattlesnake protein of the invention. NOTE: This mutant protein sequence	
CC	is not shown in the specification. It has been created from information	
CC	provided in Example 6	
XX		
SQ	Sequence 126 AA:	
XX		
Query Match	96.4%; Score 670; DB 5; Length 126;	
Best Local Similarity	96.8%; Pred. No. 6,3e-70;	
Matches 122; Conservative 0; Mismatches 4; Indels 0; Gaps 0;		
QY	1 DLEPCSGSSYDRCYCKYFKQEMTWASAEPCSSQAKGHLISVETLEASFVNVLVYAN 60	
DB	1 DLEPCSGSSYDRCYCKYFKQEMTWADAEPCSSQAKGHLISVETLEASFVNVLVYAN 60	
QY	61 KEYLTRYIMIGLARVONKGQPCSSISYENLVDPFECFVWSRDTRLREWFKYDCEQHSFIC 120	
DB	61 KEYLTRYIMIGLARVONKGQPCSSISYENLVDPFECFVWSRATRLRAWFKVDCEQHSFIC 120	
QY	121 KETRR 126	
DB	121 KETRR 126	
RESULT 24		
AAO20997	AAO20997 standard; protein, 126 AA.	
AAO20997;		
19-JUL-2002 (first entry)		
M2A-G4 D5A, D101A mutant of antithrombotic rattlesnake protein.		
Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;		
antithrombotic; glycoprotein Ib; long half life; low antigenicity;		
drug efficacy; mutant; mutein.		
Crotalus horridus horridus.		
Synthetic.		

Key Location/Qualifiers
FH Misc-difference 54 /note= "Wild-type Asp substituted by Ala"
FT Misc-difference 101 /note= "Wild-type Asp substituted by Ala"
FT Misc-difference 101 /note= "Wild-type Asp substituted by Ala"
PN EP1195384-A1.
XX 10-APR-2002.
XX 04-OCT-2001; 2001EP-001232277.
XX 04-OCT-2000; 2000JP-00305279.
XX (AJIN) AJINOMOTO CO INC.
XX Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
XX Gondoh K, Shimba N, Yamada N;
XX WPI; 2002-364482/40.
XX Glycoprotein Ib-binding protein, useful for treating thrombosis,
XX comprises specific mutations in protein originating from snake venom.
XX Example 6; Page; 49pp; English.
XX The invention relates to a glycoprotein Ib-binding protein, originating
XX from snake venom, comprising specific mutations and antithrombotic
XX activity. Glycoprotein Ib-binding protein is used in a drug having
XX antithrombotic activity. Glycoprotein Ib-binding protein has a high
XX binding activity to glycoprotein Ib, a long half life/drug efficacy
XX retention in blood, and low antigenicity. This sequence represents the
XX D54A, D101A mutant of the antithrombotic AS1051 126-mer wild-type
XX rattlesnake protein of the invention. NOTE: This mutant protein sequence
XX is not shown in the specification. It has been created from information
XX provided in Example 6
SQ Sequence 126 AA;
Query Match 96.1%; Score 668; DB 5; Length 126;
Best Local Similarity 96.8%; Pred. No. 1.1e-69;
Matches 122; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 DECPGSGMSSTDRYCYKPFKQEMTWASAEKFCSEQAKGHLSEVETALASFPDNYLYAN 60
DB 1 DECPGSGMSSTDRYCYKPFKQEMTWADAEKFCSEQAKGHLSEVETALASFPVANYLYAN 60
QY 61 KEYLTRYIMIGLRVQKQGPCSSISYENLVDPCECFMVSRTLRREMFKYDCEQHSFIC 120
DB 61 KEYLTRYIMIGLRVQKQGPCSSISYENLVDPCECFMVSRTLRREMFKYDCEQHSFIC 120
QY 121 KFTTRPR 126
DB 121 KFTTRPR 126
RESULT 25
AAO20994
ID AAO20994 standard; protein; 126 AA.
XX AAO20994;
XX 19-JUL-2002 (first entry)
XX M21-G4 D54A, D101N, E106Q mutant of antithrombotic rattlesnake protein.
XX Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
XX antithrombotic; glycoprotein Ib; long half life; low antigenicity;
XX drug efficacy; mutant; mutein.
XX Crotalus horridus horridus.
XX Synthetic.

Key Location/Qualifiers
FH Misc-difference 54 /note= "Wild-type Asp substituted by Ala"
FT Misc-difference 101 /note= "Wild-type Asp substituted by Ala"
FT Misc-difference 106 /note= "Wild-type Asp substituted by Asn"
FT Misc-difference 106 /note= "Wild-type Glu substituted by Gln"
PN EP1195384-A1.
XX 10-APR-2002.
XX 04-OCT-2001; 2001EP-001232277.
XX 04-OCT-2000; 2000JP-00305279.
XX (AJIN) AJINOMOTO CO INC.
XX Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;
XX Gondoh K, Shimba N, Yamada N;
XX WPI; 2002-364482/40.
XX Glycoprotein Ib-binding protein, useful for treating thrombosis,
XX comprises specific mutations in protein originating from snake venom.
XX Example 6; Page; 49pp; English.
XX The invention relates to a glycoprotein Ib-binding protein, originating
XX from snake venom, comprising specific mutations and antithrombotic
XX activity. Glycoprotein Ib-binding protein is used in a drug having
XX antithrombotic activity. Glycoprotein Ib-binding protein has a high
XX binding activity to glycoprotein Ib, a long half life/drug efficacy
XX retention in blood, and low antigenicity. This sequence represents the
XX D54A, D101N, E106Q mutant of the antithrombotic AS1051 126-mer wild-type
XX rattlesnake protein of the invention. NOTE: This mutant protein sequence
XX is not shown in the specification. It has been created from information
XX provided in Example 6
SQ Sequence 126 AA;
Query Match 96.1%; Score 668; DB 5; Length 126;
Best Local Similarity 96.0%; Pred. No. 1.1e-69;
Matches 121; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
QY 1 DECPGSGMSSTDRYCYKPFKQEMTWASAEKFCSEQAKGHLSEVETALASFPDNYLYAN 60
DB 1 DECPGSGMSSTDRYCYKPFKQEMTWADAEKFCSEQAKGHLSEVETALASFPVANYLYAN 60
QY 61 KEYLTRYIMIGLRVQKQGPCSSISYENLVDPCECFMVSRTLRREMFKYDCEQHSFIC 120
DB 61 KEYLTRYIMIGLRVQKQGPCSSISYENLVDPCECFMVSRTLRREMFKYDCEQHSFIC 120
QY 121 KFTTRPR 126
DB 121 KFTTRPR 126
RESULT 26
AAO20995
ID AAO20995 standard; protein; 126 AA.
XX AAO20995;
XX 19-JUL-2002 (first entry)
XX M22-G4 D54A, D101A, E106A mutant of antithrombotic rattlesnake protein.
XX Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
XX antithrombotic; glycoprotein Ib; long half life; low antigenicity;
XX drug efficacy; mutant; mutein.
XX Crotalus horridus horridus.

XX	SYNTHETIC	LOCATION/QUALIFIERS
XX	Key	
XX	Misc-difference 54	/note= "Wild-type Asp substituted by Ala"
XX	Misc-difference 101	/note= "Wild-type Asp substituted by Ala"
XX	Misc-difference 106	/note= "Wild-type Glu substituted by Ala"
XX	EP1195384-A1.	
XX	10-APR-2002.	
XX	04-OCT-2001; 2001EP-00123277.	
XX	04-OCT-2000; 2000JP-00305279.	
XX	(AJIN') AJINOMOTO CO INC.	
XX	Fukuchi N, Kito M, Kayahara T, Futaki F, Ishikawa K, Suzuki E;	
XX	Gordon K, Shimba N, Yamada N;	
XX	WPI; 2002-364482/40.	
XX	Glycoprotein Ib-binding protein, useful for treating thrombosis,	
XX	comprises specific mutations in protein originating from snake venom.	
XX	Example 6; Page; 49pp; English.	
XX	The invention relates to a glycoprotein Ib-binding protein, originating	
XX	from snake venom, comprising specific mutations and antithrombotic	
XX	activity. Glycoprotein Ib-binding protein is used in a drug having	
XX	antithrombotic activity. Glycoprotein Ib-binding protein has a high	
XX	binding activity to glycoprotein Ib, a long half life/drug efficacy	
XX	renewal in blood, and low antigenicity. This sequence represents the	
XX	D5A4, D101A, E106A mutant of the antithrombotic AS1051 126-mer wild-type	
XX	rattle-snake protein of the invention. NOTE: This mutant protein sequence	
XX	is not shown in the specification. It has been created from information	
XX	provided in Example 6	
XX	Sequence 126 AA;	
XX	Query Match	95.3%; Score 662; DB 5; Length 126;
XX	Best Local Similarity	96.0%; Fred. No. 5.5e-69;
XX	Matches 121; Conservative 0; Mismatches 5; Indels 0; Gaps 0;	
XX	1 DLECPGSSSDRYCYKPFKQEMTWASAEFCSEQAKGHLISVETALASFDVNLVLAN 60	
XX	1 DLECPGSSSDRYCYKPFKQEMTWADAEFCSEBQAKGHLISVETALASFDVNLVLAN 60	
XX	61 KEYLTRIYIWGLRQVNGKQPCSSISYENVLPDFECFVMSRDTRLREWFKVDCQHSFIC 120	
XX	61 KEYLTRIYIWGLRQVNGKQPCSSISYENVLPDFECFVMSRATRLRAMPKVCQEQHSFIC 120	
XX	121 KETRPR 126	
XX	121 KETRPR 126	
XX	RESULT 27	
XX	AAR24426	
XX	AAR24426 standard; protein; 127 AA.	
XX	AAR24426;	
XX	25-MAR-2003 (revised)	
XX	21-NOV-1992 (first entry)	
XX	Sequence of the platelet glycoprotein GPIb inhibitor alpha chain (CHH-B-	
XX	alpha).	
XX	Platelet adherence inhibitor; platelet anti-adhesive;	

KW	antithrombotic agent; von Willebrand Factor;
XX	platelet glycoprotein GPIb-IX complex.
XX	
OS	Crotalus horridus horridus.
XX	
PN	MO9208472-A1.
XX	
PD	29-MAY-1992.
XX	
XX	14-NOV-1991; 91WO-US0008516.
PF	
PR	16-NOV-1990; 90US-00614443.
XX	
PA	(COR-) COR THERAPEUTICS INC.
XX	
PI	Scarborough RM;
XX	
DR	WPI; 1992-199936/24.
XX	
PT	Platelet antiadhesive peptide(s) obcd. from snake venom - also inhibit
PT	thrombus formation; for treatment of arteriosclerosis, atherosclerosis,
PT	acute myocardial infarction, chronic unstable angina, etc.
XX	
PS	Example; Fig 6; 5pp; English.
CC	
XX	The PAA was purified from a solution of snake venom. Analysis of the peak
CC	inhibitory fractions by SDS-PAGE revealed 2 major proteins migrating with
CC	a mol. wt. 23-28 kD. Both were able to inhibit botrocetin and ristocetin
CC	induced platelet aggregation. They were called CHH-A and CHH-B. The
CC	eluting subunit (CHH-B-beta) and later eluting subunit (CHH-B-
CC	alpha) were individually submitted to N-terminal sequence analysis. The
CC	complete amino acid sequence for the alpha and beta chains are given in
CC	AAR24426 and AAR24427. (Updated on 25-MAR-2003 to correct PN field.)
XX	
SQ	Sequence 127 AA;
XX	
Query Match	95.1%; Score 661; DB 2; Length 127;
Best Local Similarity	96.0%; Pred. No. 7.2e-69;
Matches 121; Conservative	0; Mismatches 5; Indels 0; Gaps 0;
Qy	1 DLEPCGSSSTRDRCYKPFKQEMTWASAEPCSEQAKGHLISVETALASFDNNVLYAN 60
Db	1 DLEPCGSSSTRDRCYKPFKQEMTWADAEPCSEQAKGHLISVETALASFDNNVLYAN 60
Qy	61 KEYLTRIYIWIGLRYONKGQPCSSISYENLVDPFECFVMSRPTRLREMFKVDCEQHSFIC 120
Db	61 KEYLTRIYIWIGLRYONKGQPCSSISYENLVDPFECFVMSRPTRLREMFKVDCEQHSFIC 120
Qy	121 KETRRP 126
Db	121 KETRRP 126
RESULT 28	
AAO20975	AAO20975 standard; protein; 110 AA.
XX	
AC	AAO20975;
XX	
DT	19-JUL-2002 (first entry)
XX	
DE	110-mer central loop-deficient rattlesnake protein.
XX	
KW	Thrombolytic; glycoprotein Ib-binding protein; snake venom; rattlesnake;
KW	antithrombotic; glycoprotein Ib; long half life; low antigenicity;
KW	drug efficacy; loop-deficient.
XX	
OS	Crotalus horridus horridus.
XX	
XX	Synthetic.
XX	
XX	EP1195384-A1.
XX	
PD	10-APR-2002.


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PN WO9311151-A1.
XX
XX 10-JUN-1993.
XX
XX
XX 01-DEC-1992; 92WO-US010344.
XX
XX 03-DEC-1991; 91US-00803630.
XX
XX 05-JUN-1992; 92US-00893929.
XX
XX (UTEM ) UNIV TEMPLE.
XX
XX Kirby EP, Peng M;
XX
XX WPI; 1993-196991/24.
XX
XX New platelet-binding proteins obtained from snake venom - inhibit binding
XX of von Willebrand factor to platelet membrane glycoprotein IB, useful in
XX therapy, diagnosis and surgery.
XX
XX Claim 8; Page 48; 74pp; English.
XX
XX Alboaggregin B1 and B2 (collectively "Al-B"), may be obtained in
XX substantially pure chemical form from venom. Each of Al-B1 and -B2
XX comprise an about 23 kDa protein formed by an about 17 kDa polypeptide
XX chain crosslinked to an about 14 kDa polypeptide chain by one or more
XX interchain disulfide bonds. Each of the two polypeptide chains of Al-B1
XX and -B2 show strong homology to two of the chains of Al-A. Al-B1 and -B2
XX each comprise two non-identical polypeptide chains. (Updated on 25-MAR-
XX 2003 to correct PN field.)
XX
XX Sequence 130 AA;
XX
XX Query Match 49.0%; Score 340.5; DB 2; Length 130;
XX Best Local Similarity 50.8%; Pred. No. 2,1e-31;
XX Matches 66; Conservative 22; Mismatches 29; Indels 13; Gaps 4;
XX
XX 3 ECPSGWSTDRYCYKPFKQEMTWASAEKFCSEQAKGHLISVETALASFDVNDVLYANKE 61
XX 1 DCPSDWSSFKQYCYQIVALKETWEDAEKFCSEQAKGHLISVETALASFDVNDVLYANKE 60
XX
XX QY 62 EYLRITWIGLRVONKGQPC-----SSISYENLV--DFECFMYSRDTRLREMFVKVDC 112
XX DB 61 KY--HWVIGLSVONKGQCSSEWSDSSVSYENLVKPNKCFVLKKESEFRTWSNVYC 117
XX
XX QY 113 EQHSFICKF 122
XX DB 118 EQKHIFMCKF 127
XX
XX RESULT 31
XX AAR38226
XX ID AAR38226 standard; protein; 132 AA.
XX
XX AAR38226;
XX
XX 25-MAR-2003 (revised)
XX DT 01-OCT-1993 (first entry)
XX
XX Sequence of polypeptide chain of alboaggregin B1 (Al-B1).
XX
XX Venom; snake; platelet-binding protein.
XX
XX Trimeresurus albolabris.
XX
XX WO9311151-A1.
XX
XX 10-JUN-1993.
XX
XX 01-DEC-1992; 92WO-US010344.
XX
XX 03-DEC-1991; 91US-00803630.
XX PR 05-JUN-1992; 92US-00893929.
XX
XX

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PA (UTEM ) UNIV TEMPLE.
XX
XX Kirby EP, Peng M;
XX
XX WPI; 1993-196991/24.
XX
XX New platelet-binding proteins obtained from snake venom - inhibit binding
XX of von Willebrand factor to platelet membrane glycoprotein IB, useful in
XX therapy, diagnosis and surgery.
XX
XX Claim 6; Page 47; 74pp; English.
XX
XX Alboaggregin B1 and B2 (collectively "Al-B"), may be obtained in
XX substantially pure chemical form from venom. Each of Al-B1 and -B2
XX comprise an about 23 kDa protein formed by an about 17 kDa polypeptide
XX chain crosslinked to an about 14 kDa polypeptide chain by one or more
XX interchain disulfide bonds. Each of the two polypeptide chains of Al-B1
XX and -B2 show strong homology to two of the chains of Al-A. Al-B1 and -B2
XX each comprise two non-identical polypeptide chains. (Updated on 25-MAR-
XX 2003 to correct PN field.)
XX
XX Sequence 132 AA;
XX
XX Query Match 46.4%; Score 322.5; DB 2; Length 132;
XX Best Local Similarity 47.3%; Pred. No. 2,7e-29;
XX Matches 61; Conservative 21; Mismatches 38; Indels 9; Gaps 2;
XX
XX 3 ECPSGWSTDRYCYKPFKQEMTWASAEKFCSEQAKGHLISVETALASFDVNDVLYANKE 62
XX 1 DCPSDWSSFKQYCYQIVALKETWEDAEKFCSEQAKGHLISVETALASFDVNDVLYANKE 60
XX
XX QY 63 YLTRYIWIIGLRVONKGQPC-----SSISYENLV--DFECFMYSRDTRLREMFVKVDC 113
XX DB 61 TRYVWVIGLSVONKEQCSSEWSDSSVSYENLVKPNKCFVLKKESEFRTWSNVYC 120
XX
XX QY 114 EQHSFICKF 122
XX DB 121 QKHIFMCKF 129
XX
XX RESULT 32
XX AAR38222
XX ID AAR38222 standard; protein; 131 AA.
XX
XX AAR38222;
XX
XX 25-MAR-2003 (revised)
XX DT 01-OCT-1993 (first entry)
XX
XX Sequence of polypeptide chain of alboaggregin A (Al-A).
XX
XX Venom; snake; platelet-binding protein.
XX
XX Trimeresurus albolabris.
XX
XX WO9311151-A1.
XX
XX 10-JUN-1993.
XX
XX 01-DEC-1992; 92WO-US010344.
XX
XX 03-DEC-1991; 91US-00803630.
XX PR 05-JUN-1992; 92US-00893929.
XX
XX (UTEM ) UNIV TEMPLE.
XX
XX Kirby EP, Peng M;
XX
XX WPI; 1993-196991/24.
XX
XX New platelet-binding proteins obtained from snake venom - inhibit binding
XX of von Willebrand factor to platelet membrane glycoprotein IB, useful in
XX therapy, diagnosis and surgery.
XX

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DR WPI; 1993-196991/24.
 XX New platelet-binding proteins obtained from snake venom - inhibit binding
 PT of von Willebrand factor to platelet membrane glycoprotein IB, useful in
 PT therapy, diagnosis and surgery.
 XX
 PS Claim 4; Page 46; 74pp; English.
 CC AL-A may be obtcd. from snake venom. It has a mol. wt. of about 45 kDa. AL
 CC -A contains two types of polypeptide chains, with mol. wt. of about 18
 CC kDa and about 15 kDa, respectively. Each of these two types of chains is
 CC actually composed of two subtypes. Thus, AL-A comprises four non-
 CC identical polypeptide chains. A possible variation of AAR38224 has been
 CC found, characterised by Asp at posn. three in lieu of Cys. (Updated on 25
 CC MAR-2003 to correct PN field.)
 XX
 SQ Sequence 134 AA;
 SO
 Query Match 44.2%; Score 307.5; DB 2; Length 134;
 Best Local Similarity 42.0%; Pred. No. 1.6e-27;
 Matches 55; Conservative 26; Mismatches 41; Indels 9; Gaps 2;
 QY 1 DLECPGMSSTDRYCYKPKQEMTWASAEKFCSEQAKGHLISVETRLAESFVDNLYAN 60
 DB 1 DFCFLGMSWADYDQCYRVFNEPKWMDAERFCAKQADSGHLVSIETMGEDAFVAQLISEN 60
 QY 61 KEVLTFTYIMIGLKVONKGGPC-----SSISYENLVDPF--CFMWSRDTRLREMFKYD 111
 DB 61 IQKHEHYVMIGLVONKEQCCSEMSDGSSTVETENLKLTKMRKCGALJESGFRKMINLG 120
 QY 112 CEQOHSFICK 122
 DB 121 CIGLNPFCVF 131
 RESULT 37
 AAO14520
 ID AAO14520 standard; protein; 154 AA.
 XX
 AC AAO14520;
 XX
 DT 29-AUG-2003 (revised)
 DT 16-MAY-2002 (first entry)
 XX
 DE Korean adder snake venom salmorin A chain protein.
 XX
 KW Korean adder; salmorin protein A chain; snake venom;
 KW fibrinogen clotting inhibition; thrombosis; prothrombin binding;
 KW thrombin binding; blood coagulation.
 XX
 OS Glycydus halys brevicandus.
 XX
 FT Key Location/Qualifiers
 FT Peptide 1..23
 FT Protein /label= signal_peptide
 FT 24..154
 FT /note="Mature salmorin A chain protein"
 XX
 PN WO200214514-A1.
 XX
 PD 21-FEB-2002.
 XX
 PF 26-JUL-2001; 2001MO-KR001277.
 XX
 PR 27-JUL-2000; 2000KR-00043470.
 XX
 PA (BIOB-) BIOBUD CO LTD.
 XX
 PI Chung K, Kim D, Koh Y;
 XX
 DR WPI; 2002-241907/29.
 DR N-PSDB; AAL42015.
 XX

PT New salmorin protein derived from venom of Korean adder Agkistrodon halys
 PT brevicandus, useful for treating thrombosis by repressing fibrinogen
 PT clotting through repression of activation of prothrombin into thrombin.
 XX
 PS Claim 2; Fig 1A; 30pp; English.
 CC The invention comprises the nucleotide and protein sequences of a
 CC salmorin protein derived from the venom of Korean adder. Salmorin protein
 CC is composed of an A chain and a B chain, and has inhibitory activity
 CC against fibrinogen clotting. The salmorin protein of the invention is
 CC useful for treating thrombosis, as it represses fibrinogen clotting
 CC potentially by binding to prothrombin and thrombin so as to delay blood
 CC coagulation. The present amino acid sequence represents the Korean adder
 CC salmorin A chain protein. (Updated on 29-AUG-2003 to standardise OS
 CC field)
 XX
 SQ Sequence 154 AA;
 SO
 Query Match 43.8%; Score 304.5; DB 5; Length 154;
 Best Local Similarity 44.6%; Pred. No. 4.3e-27;
 Matches 58; Conservative 20; Mismatches 43; Indels 9; Gaps 2;
 QY 1 DLECPGMSSTDRYCYKPKQEMTWASAEKFCSEQAKGHLISVETRLAESFVDNLYAN 60
 DB 24 DFCPCGMSGNNGHCYQAFNORMTWEDAEKFCQAKGHLISVETRAEDAFVAHYAER 83
 QY 61 KEVLTFTYIMIGLKVONKGGPC-----SSISYENLVDPF--CFMWSRDTRLREMFKYD 111
 DB 84 IETSPFHVMIGLVONKEQCCSEMSDGSSTVETENLKLTKMRKCGALJESGFRKMINLG 143
 QY 112 CEQOHSFICK 121
 DB 144 CGQRNPFVCE 153
 RESULT 38
 AAM51543
 ID AAM51543 standard; protein; 152 AA.
 XX
 AC AAM51543;
 XX
 DT 11-SEP-2003 (revised)
 DT 10-JAN-2002 (first entry)
 XX
 DE Snake venom blood anticoagulant halysin A chain.
 XX
 KW Snake; pit viper; venom; halysin; anticoagulant; thrombogenesis;
 KW thrombosis.
 XX
 OS Glycydus halys.
 XX
 PN KR2001049671-A.
 XX
 PD 15-JUN-2001.
 XX
 PF 29-JUN-2000; 2000KR-00036591.
 XX
 PR 29-JUN-1999; 99KR-00025105.
 XX
 PA (BIOB-) BIOBUD CO LTD.
 XX
 PI Jang YS, Jung GH, Kim DS, Koo BH, Son YD;
 XX
 DR WPI; 2001-637330/73.
 DR N-PSDB; AAT1876.
 XX
 PT Halysin as blood anticoagulation protein separated from snake venom.
 PS Claim 2; Page 10; 21pp; Korean.
 CC The invention relates to halysin, a novel protein with very strong blood
 CC anticoagulation activity. The protein was separated from snake venom of
 CC Agkistrodon halys brevicandus (a Korean pit viper) and can be used in the

CC angiotrophic thrombosis, cerebral thrombosis, ischaemic cerebral vascular
 CC diseases, unstable angina, acute thrombosis, unstable stenocardia,
 CC thromboangiitis obliterans, pulmonary embolism, deep vein thrombosis,
 CC peripheral arterial occlusion, stroke. It is also useful for treating
 CC atherosclerosis, oedema and inflammation, cancer and neurodegenerative
 CC diseases. The present sequence represents the amino acid sequence of the
 CC Deinagkistrodon acutus antithrombosis enzyme alpha chain
 CC
 XX
 SQ Sequence 129 AA;
 Query Match 39.1%; Score 271.5; DB 6; Length 129;
 Best Local Similarity 41.4%; Pred. No. 2,4e-23;
 Matches 53; Conservative 22; Mismatches 44; Indels 9; Gaps 2;
 QY 3 ECPSGNSTDRVCYKPKQEMTWASAEPCSEQAKGHLSTVETALASFDVNLVANK 62
 DB 1 DCSSDMSYEGHCYKVKQSKTWTDAESFCTKVNGHLSISSGADPVGQLIAQK 60
 QY 63 YLTRYIWIGLRVONKGPQPC-----SSISYENLV--DPPECFVNSDTRLREMFKYDCE 113
 DB 61 SAKIHWIGLRAONKEKQCSIEWSDGSSISKENWIEESKCKLGVHETGFHKMENFYCE 120
 QY 114 QQHSFICK 121
 DB 121 QQDPFVCE 128
 RESULT 41
 ABU62534
 ID ABU62534 standard; protein; 129 AA.
 AC ABU62534;
 XX
 DT 23-OCT-2003 (revised)
 DT 29-AUG-2003 (first entry)
 XX
 DE Snake antithrombosis enzyme A chain.
 XX
 KW Snake; antithrombosis enzyme; A chain; enzyme; fibrin; blood clot;
 KW platelet aggregation; myocardial infarction; restenosis; unstable angina;
 KW cerebral thrombosis; cardiac; antitanginal; thrombolytic; anticoagulant;
 KW vasotrophic.
 XX
 OS Deinagkistrodon acutus.
 XX
 PN US2003022350-A1.
 PD 30-JAN-2003.
 PF 23-AUG-2001; 2001US-00938114.
 PR 11-APR-1997; 97US-0043886P.
 PR 10-APR-1998; 98US-00058740.
 XX
 PA (WANG/) WANG C.
 PA (LIBX/) LI B X.
 PA (CHEN/) CHENG X.
 PA (LIU/) LIU J.
 PA (NIU/) NIU L.
 PA (HUAN/) HUANG W.
 PA (XU22/) XU Z.
 PA (LUOD/) LUO D.
 PA (KANG/) KANG L.
 PA (DING/) DING J.
 PA (RONG/) RONG F.
 PA (LIUY/) LIU Y.
 PA (CHEN/) CHEN H.
 XX
 PI Wang C, Li BX, Cheng X, Liu J, Niu L, Huang W, Xu Z, Luo D;
 PI Kang L, Ding J, Rong F, Liu Y, Chen H;
 XX
 DX WPI; 2003-492002/46.

PT New antithrombosis enzyme, useful for treating or preventing a thrombosis
 PT related disease in a mammal e.g. myocardial infarction, restenosis,
 PT unstable angina or cerebral thrombosis.
 XX
 PS Claim 14; Page 6-7; 20pp; English.
 XX
 CC The invention relates to an isolated, purified or recombinant
 CC antithrombosis enzyme which hydrolyses fibrin, dissolves blood clots and
 CC prevents platelet aggregation. The enzyme is useful for treating or
 CC preventing a thrombosis related disease in a mammal, such as myocardial
 CC infarction, restenosis, unstable angina or cerebral thrombosis. This
 CC sequence represents a snake antithrombosis enzyme A chain. (Updated on 23
 CC -OCT-2003 to standardise OS field)
 XX
 SQ Sequence 129 AA;
 Query Match 39.1%; Score 271.5; DB 7; Length 129;
 Best Local Similarity 41.4%; Pred. No. 2,4e-23;
 Matches 53; Conservative 22; Mismatches 44; Indels 9; Gaps 2;
 QY 3 ECPSGNSTDRVCYKPKQEMTWASAEPCSEQAKGHLSTVETALASFDVNLVANK 62
 DB 1 DCSSDMSYEGHCYKVKQSKTWTDAESFCTKVNGHLSISSGADPVGQLIAQK 60
 QY 63 YLTRYIWIGLRVONKGPQPC-----SSISYENLV--DPPECFVNSDTRLREMFKYDCE 113
 DB 61 SAKIHWIGLRAONKEKQCSIEWSDGSSISKENWIEESKCKLGVHETGFHKMENFYCE 120
 QY 114 QQHSFICK 121
 DB 121 QQDPFVCE 128
 RESULT 42
 AAR72235
 ID AAR72235 standard; peptide; 132 AA.
 AC AAR72235;
 XX
 DT 27-AUG-2003 (revised)
 DT 25-MAR-2003 (revised)
 DT 04-DEC-1995 (first entry)
 XX
 DE Vipera palestinae venom derived peptide.
 XX
 KW Vipera palestinae; venom; antithrombotic agent; platelet binding;
 KW von Willebrand factor.
 XX
 OS Vipera xanthina.
 XX
 PN WO9509183-A1.
 PD 06-APR-1995.
 PF 27-SEP-1994; 94WO-JP001583.
 PR 28-SEP-1993; 93JP-00241666.
 PR 14-JAN-1994; 94JP-00002691.
 PR 10-JUN-1994; 94JP-00128518.
 XX
 PA (AJIN) AJINOMOTO KK.
 PI Fukuchi N, Ishii K, Kaide K, Kobayashi T;
 DR WPI; 1995-147392/19.
 XX
 PT Peptide derived from Vipera palestinae venom - inhibits binding of
 PT platelets to von Willebrand factor, useful as antithrombotic agent.
 XX
 PS Claim 5; Page 19; 37pp; Japanese.
 XX
 CC AAR72235 is a Vipera palestinae venom derived peptide. A peptide compsn.
 CC comprising AAR72235 and AAR72236 is claimed, it inhibits the binding of

XX	Key	Location/Qualifiers
FT	Peptide	1..23
XX		/note= "Leader peptide"
FT	Protein	24..146
FT		/note= "Mature antithrombosis enzyme beta chain. Residues 24 to 40 specifically claimed in claim 8"
FT	Misc-difference	72
FT		/label= Unknown
FT		/note= "Encoded by NNT"
FT	Misc-difference	72
FT		/label= Unknown
FT		/note= "Encoded by NNN"
FT	Misc-difference	72
FT		/label= Unknown
FT		/note= "Encoded by TNN"
XX		
PN	US6489451-B1.	
XX		
PD	03-DEC-2002.	
XX		
PF	10-APR-1998;	98US-00058740.
XX		
PR	10-APR-1997;	97US-0043886P.
PA	(HEFE-) HEFEI SIU FUNG USTC PHARM CO LTD. (HEFE-)	
XX		
PI	Li BX, Cheng X;	
DR	WPI; 2003-352116/33.	
XX	N-PSDB; ABX93674.	
PT	New purified Agkistrodon actus anti-thrombosis enzyme, useful for preventing and treating vaso-occlusive and thromboembolic disorders, including myocardial infarction, restenosis, cerebral thrombosis and unstable angina.	
PS	Disclosure; Fig 1, 19pp; English.	
XX		
CC	The invention relates to a new Deinagkistrodon actus anti-thrombosis enzyme, where the enzyme hydrolyses fibrin, dissolves blood clots and prevents platelet aggregation. The anti-thrombosis enzyme was administered to rabbits intravenously. Thrombosis was determined before and after the administration at 0.5, 1.0, 2.0 and 3.0 hours by the Chandler method. The enzyme showed anti-thrombosis activity at 0.5 hour following administration at 0.005 micro/Kg and this activity was increased significantly at 1.0 hour and at 0.01 micro /Kg. The composition is useful for preventing and treating vaso-occlusive and thromboembolic disorders, including myocardial infarction, restenosis, angiotrophic thrombosis, cerebral thrombosis, ischemic cerebral vascular diseases, unstable angina, acute thrombosis, unstable stenocardia, thromboangitis obliterans, pulmonary embolism, deep vein thrombosis, peripheral arterial occlusion, stroke. It is also useful for treating atherosclerosis, oedema and inflammation, cancer and neurodegenerative diseases. The present sequence represents the amino acid sequence of the Deinagkistrodon acutus antithrombosis enzyme beta chain	
XQ	Sequence 146 AA;	

Query Match	30.3%	Score 210.5	DB 6	Length 146
Best Local Similarity	37.6%	Pred. No. 3,8e-16		
Matches	47	Conservative	23	Mismatches 46, Indels 9, Gaps 5

OY	3	ECPSGMSSTDRKCYCPFKQEMTWASAEKRCPSQACGHL-LSVEFALZASFVDNLYXAK	61
Db	24	DCPSMSWSEYEGCFDFDEPKTMAAEKFCIDQHHGSHLPLVAVRALYXXXXGHVDHTKL	83
OY	62	EYL-----RYTWIGLRVONKQGPCSSISVENLVDPFECFMSRDRTRLEMFECVDEQOHS	117
Db	84	KLISISIGLKINWNG--CYWKMSSDGRDKLQKMDREDFEC-LVSR-VVNNEMVLSMDGTCSS	139

QY	118	FICKF	122
		1:111	
Db	140	FVCKF	144

RESULT 48
ABU62539
ID ABU62539 standard; protein; 146 AA

AC ABU62539;

DT	23-OCT-2003	(revised)
DT	29-AUG-2003	(first entry)

DE Snake antithrombosis enzyme B chain.

Snake; antithrombosis enzyme; B chain, enzyme; fibrin, blood clot;
platelet aggregation; myocardial infarction; restenosis; unstable angina
cerebral thrombosis; cardiant; antianaginal; thrombolytic; anticoagulant;
vasotrophic.

OS *Deinagkistrodon acutus*.

	Key	Location/Qualifiers
FH	Misc-difference	72. 75
FT		/note= "Encoded by TNNNNNNNNNT"
FT		

PN US2003022350-A1.

PD 30-JAN-2003.

PF 23-AUG-2001; 2001US-00938114.

PR 11-APR-1997; 97US-0043886P.
PR 10-APR-1998; 98US-00058740.

PA	(WANG/)	WANG C.
PA	(LIBX/)	LI B X.
PA	(CHEN/)	CHENG X.
PA	(LIU/)	LIU J.

PA (HUAN/) HUANG W.
PA (XUZZ/) XU Z.
PA (LUOD/) LUO D.
PA (KANG/) KANG L.
PA (DING/) DING J.
PA (RONG/) RONG F.
PA (LIUY/) LIU Y.
PA (CHEN/) CHEN H.

PI Wang C, Li BX, Cheng X, Liu J, Niu L, Huang W, Xu Z, Luo D,
PI Kang L, Ding J, Rong F, Liu Y, Chen H;
XX
WPI: 2003-492002/46.
DR N-PSDB; ACA63110.

PT New antithrombosis enzyme, useful for treating or preventing a thrombosis-related disease in a mammal e.g. myocardial infarction, restenosis, PT unstable angina or cerebral thrombosis.

PS Example 3; Fig 1; 20pp; English.

CC The invention relates to an isolated, purified or recombinant
CC antithrombotic enzyme which hydrolyses fibrin, dissolves blood clots and
CC prevents platelet aggregation. The enzyme is useful for treating or
CC preventing a thrombotic related disease in a mammal, such as myocardial
CC infarction, venostomosis, unstable angina or cerebral thrombosis. This
CC sequence represents a snake antithrombotic enzyme B chain. (Updated on 2
CC OCT-2003 to standardise OS field)

SQ Sequence 146 AA;

	Query Match	30.3%	Score 210.5;	DB 7;	Length 146;	
	Best Local Similarity	37.6%	Pred. No. 4.2e-16;			
Dd	Matches	47;	Conservative	23;	Mismatches	46;
					Indels	9;
					Gaps	5;
Qy	3 ECPGWSSTDRYCYKPFKEQMTWASAEKFCBQAAGSHL-LSVETALBASFDVNTLVANK	61				
	:::::	:	:	:	:	:
	24 DCPSEMSVEGHCKYKFPDEPTMDAEKFCIQKHGSLPLTAVAIYXXXXGHVDHRL	83				
Db	84 KLILHLGLKNINWG--CYWKMSDGYTKLDYKDMREQFEC-LVSR-TVNNEMLMDCGTCS	139				
	:::	:	:	:	:	:
Qy	62 EYLTV---RYTWIGLRVONKKQPCSSISEYNLVPDFECPFMVSRTPLRLMEKFVDCQQHS	117				
	:::	:	:	:	:	:
Db	84 KLILHLGLKNINWG--CYWKMSDGYTKLDYKDMREQFEC-LVSR-TVNNEMLMDCGTCS	139				
	:::	:	:	:	:	:
Qy	118 FICKP	122				
	:::	:	:	:	:	:
Db	140 FVCKP	144				
	:::	:	:	:	:	:
	RESULT 49					
ID	AAR24427 standard; protein; 116 AA.					
	AAR24427					
AC	AAR24427;					
XX						
DT	25-MAR-2003 (revised)					
DT	21-NOV-1992 (first entry)					
DE	Sequence of the platelet glycoprotein GPIIb inhibitor beta chain (CHH-B-beta).					
XX						
KM	Platelet adherence inhibitor; platelet anti-adhesive;					
KW	antithrombotic agent; von Willebrand Factor;					
KM	platelet glycoprotein GPIIb-IX complex.					
XX						
OS	Crotalus horridus horridus.					
PN	MO9208472-A1.					
XX						
PD	29-MAY-1992.					
XX						
PP	14-NOV-1991; 91WO-US008516.					
PR	16-NOV-1990; 90US-00614443.					
PA	(COR-) COR THERAPEUTICS INC.					
PI	Scarborough RM;					
PI	WI: 1992-199936/24.					
DR						
PS	Example; Fig 6; 5pp; English.					
CC	The PAA was purified from a solution of snake venom. Analysis of the peak					
CC	inhibitory fractions by SDS-PAGE revealed 2 major proteins migrating with					
CC	a mol. wt. 23-28 kD. Both were able to inhibit botrocetin and ristocetin					
CC	induced platelet agglutination. They were called CHH-A and CHH-B. The					
CC	earlier eluting subunit (CHH-B-beta) and later eluting subunit (CHH-B-					
CC	alpha) were individually submitted to N-terminal sequence analysis. The					
CC	complete amino acid sequence for the alpha and beta chains are given in					
CC	AAR24426 and AAR24427. (Updated on 25-MAR-2003 to correct PN field.)					
XX						
SQ	Sequence 116 AA;					
	Query Match	30.1%	Score 209;	DB 2;	Length 116;	
	Best Local Similarity	37.1%	Pred. No. 4.2e-16;			
Match	46;	Conservative	26;	Mismatches	40;	Indels
					12;	Gaps
Qy	3 ECPGWSSTDRYCYKPFKEQMTWASAEKFCBQAAGSHL-LSVETALBASFDVNTLVANK	62				
	:::::	:	:	:	:	:
Db	1 DCPSEMSVEGHCKYKFPDEPTMDAEKFCIQKHGSLPLTAVAIYXXXXGHVDHRL	--KD	57			

Qy	63	YL---	TVYIYIGLAVQ-NKGQPCSSISYENLVDPCECFMWSRDLRLBEMFVYDCEQHSF	118
Db	58	LFWMGWMDIMMERLQWSDG---	TKVNYKMSAEPEC-IVCRATD-NQWLSSTCSKTHNV	112
Qy	119	ICKF	122	
Db	113	VCKF	116	
RESULT 50				
ID	AA71978	standard; peptide; 38 AA.		
AC	AA71978;			
DT	25-MAR-2003	(revised)		
DT	28-NOV-1995	(first entry)		
DE	Snake venom derived antithrombotic peptide.			
XX	Antithrombotic peptide; snake venom; platelet binding inhibition;			
KM	von Willebrand factors; Crocatalus horridus horridus.			
OS	Crocatalus horridus horridus.			
XX				
XX	Key	Location/Qualifiers		
FT	Disulfide-bond	4..15		
XX	W09508573-AI.			
XX	30-MAR-1995.			
XX	21-SEP-1994;	94WO-JP001555.		
XX	22-SEP-1993;	93JP-00236975.		
XX				
PA	(AJIN) AJINOMOTO KK.			
PI	Fukuchi N, Yamamoto H, Nagano M, Kito M, Tanaka A, Ishii K;			
PI	Kobayashi T, Yoshimoto R;			
XX	WPI; 1995-139559/18.			
XX				
PT	Single-chain antithrombotic peptide - obtained by cleaving an			
PT	oligopeptide from snake venom to break inter-chain di:sulphide bonds but			
PT	preserve intra-chain di:sulphide bonds.			
XX				
PS	Claim 3; Page 44; 84pp; Japanese.			
XX				
CC	AA71978 and AA71979 are snake venom derived antithrombotic peptides,			
CC	prepared by cleaving the interpeptide but retaining the intrapeptide			
CC	disulphide bonds of the original snake venom oligopeptide. These peptides			
CC	have the advantage of avoiding significant thrombocytopenia when			
CC	administered at the minimum dose, for in vivo inhibition of platelet von			
CC	Willebrand factor binding. (Updated on 25-MAR-2003 to correct PN field.)			
XX				
XX	Sequence 38 AA;			
Qy	Query Match	29.9%; Score 208; DB 2; Length 38;		
	Best Local Similarity	94.7%; Pred. No. 1.3e-16;		
	Matches 36; Conservative 0; Mismatches 2; Indels 0; Gaps 0;			
Qy	1 DLBCPSGWSSTDRYCYKPFKQEMTWASAEPRCSBOAKG	38		
Db	1 DLBCPSGWSSTDRYCYKPFKQEMTWASAEPRCSBOAKG	38		

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QY 114 QOHSFTCK 121
DB 121 QONPFVCE 128

RESULT 2

botroectin alpha chain - jararaca
N/Alternate names: two chain botroectin alpha chain
C/Species: Bothrops jararaca (jararaca)
C/Date: 21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C/Accession: A47267, B37958

R/Usami, Y.; Fujimura, Y.; Suzuki, M.; Ozeki, Y.; Nishio, K.; Fukui, H.; Ticiani, K.
Proc. Natl. Acad. Sci. U.S.A. 90, 928-932, 1993

A/Title: Primary structure of two-chain botroectin, a von Willebrand factor modulator pu
A/Reference number: A47267, PMID:93157385; PMID:8430107

A/Accession: A47267

A/Molecule type: protein

A/Residues: 1-133 <USA>

A/Cross-references: UNIPROT:P22029

A/Experimental source: venom

A/Note: sequence extracted from NCBI backbone (NCBI:P124085)

R/Fujimura, Y.; Ticiani, K.; Usami, Y.; Suzuki, M.; Oyama, R.; Matsui, T.; Fukui, H.; Sug

Biochemistry 30, 1957-1964, 1991

A/Title: Isolation and chemical characterization of two structurally and functionally di

A/Reference number: A37958, PMID:91129280; PMID:1993206

A/Accession: B37958

A/Molecule type: protein

A/Residues: 1-40 <FRU>

C/Complex: heterodimer of alpha and beta (see PIR:B47267) chains

C/Superfamily: tetranectin, C-type lectin homology

C/Keywords: hemagglutinin, heterodimer, venom

F/2-128/Domains: C-type lectin homology <LCH>

F/2-13,30-129,103-120/Disulfide bonds: #status experimental

F/80/Disulfide bonds: interchain (to beta-75) #status experimental

Query Match 44.7%; Score 311; DB 2; Length 133;

Best Local Similarity 45.9%; Pred. No. 3e-25;

Matches 61; Conservative 24; Mismatches 38; Indels 10; Gaps 3;

QY 3 ECPGSGMSSTRDYCYKPFKQEMTWASAEFCSEQAKGHLISVETLAEASFVNDVLYANKE 61

DB 1 DCPGSGMSSTRDYCYKPFKQEMTWASAEFCSEQAKGHLISVETLAEASFVNDVLYANKE 60

QY 62 EYLTRYIYIGLRVQNGQPC-----SSISYENLVDPF--ECFVWSRDTRLREMFKVD 112

DB 61 QSSDIYAWIGLRVQNGQPC-----SSISYENLVDPF--ECFVWSRDTRLREMFKVD 120

QY 113 EOGHSFTCKFTRP 125

DB 121 AQKNPFVCKSPPP 133

RESULT 3

coagulation factor IX/factor X-binding protein chain A precursor - habu
C/Species: Trimeresurus flavoviridis (habu)
C/Date: 16-Aug-1996 #sequence_revision 16-Aug-1996 #text_change 09-Jul-2004
C/Accession: J04690, A39332

R/Matsuoka, K.; Yoshitake, E.; Yamada, M.; Shima, K.; Atoda, H.; Morita, T.
Biochem. Biophys. Res. Commun. 220, 382-387, 1996

A/Title: cDNA cloning of IX/X-BP, a heterogeneous two-chain anticoagulant protein from B
A/Reference number: J04690, PMID:96184662; PMID:8645314

A/Accession: J04690

A/Molecule type: mRNA

A/Residues: 1-152 <MAT>

A/Cross-references: UNIPROT:P23806; DDBJ:D83331; NID:G1402639; PION:BA1187.1; PID:G140

A/Experimental source: venom

R/Atoda, H.; Hyuga, M.; Morita, T.
J. Biol. Chem. 266, 14903-14911, 1991

A/Title: The primary structure of coagulation factor IX/factor X-binding protein isolate
of otein, tetranectin, and lymphocyte R_c expression receptor for immunoglobulin E.

A/Reference number: A39332; PMID:91332000; PMID:1831197

A/Accession: A39332

A/Status: preliminary

A/Molecule type: protein

A/Residues: 24-152 <ATO>

C/Superfamily: tetranectin, C-type lectin homology

C/Keywords: anticoagulant, blood coagulation, glycoprotein, hemolymph, lectin

F/1-23/Domains: signal sequence #status predicted <SIG>

F/24-152/Product: factor IX/X binding protein chain A #status predicted <MAT>

F/25-150/Domains: C-type lectin homology <LCH>

F/25-36,53-150,125-142/Disulfide bonds: #status predicted

Query Match 43.5%; Score 302.5; DB 2; Length 152;

Best Local Similarity 44.5%; Pred. No. 2.7e-24;

Matches 57; Conservative 25; Mismatches 37; Indels 9; Gaps 2;

QY 3 ECPGSGMSSTRDYCYKPFKQEMTWASAEFCSEQAKGHLISVETLAEASFVNDVLYANKE 62

DB 24 DCPGSGMSSTRDYCYKPFKQEMTWASAEFCSEQAKGHLISVETLAEASFVNDVLYANKE 83

QY 63 YLTRYIYIGLRVQNGQPC-----SSISYENLVDPF--CFVWSRDTRLREMFKVD 113

DB 84 RLDFYIYIGLRVQNGQPC-----SSISYENLVDPF--CFVWSRDTRLREMFKVD 143

QY 114 QOHSFTCK 121

DB 144 QONPFVCE 151

RESULT 4

agglutinin alpha chain precursor - sharp-nosed viper

N/Alternate names: fibrinogenolytic venom protein

C/Species: Agkistrodon acutus (sharp-nosed viper)

C/Date: 04-Mar-2000 #sequence_revision 04-Mar-2000 #text_change 09-Jul-2004

C/Accession: J07134; PC7037

R/Cheng, X.; Qian, Y.; Liu, Q.; Li, B.X.Y.; Zhang, M.; Liu, J.

Biochem. Biophys. Res. Commun. 265, 530-535, 1999

A/Title: Purification, characterization, and cDNA cloning of a new fibrinogenolytic venom

A/Reference number: J07134, PMID:20025379; PMID:10558903

A/Accession: J07134

A/Molecule type: mRNA

A/Residues: 1-152 <CHE>

A/Cross-references: UNIPROT:Q9DEP9; UNIPROT:Q9IAM1; UNIPROT:Q8U1W0; GB:AF176420

A/Experimental source: venom gland

A/Accession: PC7037

A/Molecule type: protein

A/Residues: 24-53;84-86;87-94;125-136;137-152 <CH2>

C/Superfamily: tetranectin, C-type lectin homology

C/Keywords: disulfide bond, heterodimer, venom

F/1-23/Domains: signal sequence #status predicted <SIG>

F/24-152/Product: agglutinin alpha chain #status experimental <MAT>

Query Match 41.9%; Score 291.5; DB 2; Length 152;

Best Local Similarity 43.8%; Pred. No. 3.8e-23;

Matches 56; Conservative 23; Mismatches 40; Indels 9; Gaps 2;

QY 3 ECPGSGMSSTRDYCYKPFKQEMTWASAEFCSEQAKGHLISVETLAEASFVNDVLYANKE 62

DB 24 DCPGSGMSSTRDYCYKPFKQEMTWASAEFCSEQAKGHLISVETLAEASFVNDVLYANKE 83

QY 63 YLTRYIYIGLRVQNGQPC-----SSISYENLV--DPFVWSRDTRLREMFKVD 113

DB 84 SAKIHWIGLRVQNGQPC-----SSISYENLV--DPFVWSRDTRLREMFKVD 143

QY 114 QOHSFTCK 121

DB 144 QONPFVCE 151

RESULT 5

PC7027

agglutinin alpha chain - Malayan pit viper (fragment)

C/Species: Calloselasma rhodostoma (Malayan pit viper)

C>Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
 C/Accession: PC7027
 R/Chung, C.H.; Au, L.C.; Huang, T.F.
 C/Species: Biophrys, Res. Commun. 263, 723-727, 1999
 A/Title: Molecular cloning and sequence analysis of aggrecan, a collagen-like platelet
 A/Reference number: PC7027; PMID:99443731; PMID:10512747
 A/Accession: PC7027
 A/Molecule type: mRNA
 A/Residues: 1-144 <CHU>
 A/Cross-references: UNIPROT:Q91841
 A/Experimental source: venom gland
 A/Superfamily: tetranectin; C-type lectin homology
 C/Keywords: disulfide bond; platelet aggregation; venom

Query Match 41.4%; Score 288; DB 2; Length 144;
 Best Local Similarity 43.8%; Pred. No. 8.3e-23;
 Matches 57; Conservative 21; Mismatches 40; Indels 12; Gaps 4;
 QY 3 ECPGMSSTDRYCYKPKQEMTWASAEPCSEQAKGSHLSVETALASFDVNLVYANKE 62
 DB 12 DCGFGSPYDQHCHYQAFNEQKTWDEAKFCRAQENGHLSISNGEADTV-SMLISQKD 70
 QY 63 YLTRYIWIIGLARVONKQGPC-----SSISYENLVDP--PFCFVMSRDTLRREMPKV 111
 DB 71 ELADEDYWIIGLARVONKQGPCSSSEWSDSSVSYENLIDHTKKCGALEKLTGFRKWNVY 130
 QY 112 CEQSHFICK 121
 DB 131 CEQSHFICK 140

RESULT 6
 JCT135
 agkiscutacin beta chain precursor - sharp-nosed viper
 N/Alternate names: fibrinogenolytic venom protein
 C/Species: Agkistrodon acutus (sharp-nosed viper)
 C/Date: 04-Mar-2000 #sequence_revision 04-Mar-2000 #text_change 09-Jul-2004
 C/Accession: JCT135; PC7038
 R/Cheng, X.; Qian, Y.; Liu, Q.; Li, B. X. Y.; Zhang, M.; Liu, J.
 Biochem. Biophys. Res. Commun. 265, 530-535, 1999
 A/Title: Purification, characterization, and cDNA cloning of a new fibrinogenolytic venom
 A/Reference number: JCT134; PMID:20025379; PMID:10558903
 A/Accession: JCT135
 A/Molecule type: mRNA
 A/Residues: 1-146 <CHE>
 A/Cross-references: UNIPROT:Q9J1W1; GB:AF176421
 A/Experimental source: venom gland
 A/Accession: PC7038
 A/Molecule type: protein
 A/Residues: 24-50/59-83;102-107;112-114 <CH2>
 C/Superfamily: tetranectin; C-type lectin homology
 C/Keywords: disulfide bond; heterodimer; venom
 F/1-23/Domain: signal sequence #status predicted <SIG>
 F/24-146/Product: agkiscutacin beta chain #status experimental <MAT>

Query Match 35.8%; Score 248.5; DB 2; Length 146;
 Best Local Similarity 42.4%; Pred. No. 1.1e-18;
 Matches 53; Conservative 20; Mismatches 43; Indels 9; Gaps 5;
 QY 3 ECPGMSSTDRYCYKPKQEMTWASAEPCSEQAKGSHLSVETALASFDVNLVYANKE 62
 DB 24 DCGSEMSYEGHCHYKPFDEKTMADAEKCTQGHKSHLSFISSEADTV--VTLTTPS 81
 QY 63 YLTRYIWIIGLARVONKQGPCSSISYENLVDPFECFVMSRDTLRREMPKVDCQSHS 117
 DB 82 LKTDLWIGIKHINWNGCYKMSDGTLDYKDMREOFEC-LVSR-TVNNWLSMDCGTTCS 139
 QY 118 FICKP 122
 DB 140 FVCKP 144

RESULT 7

JCS058:
 bitiscetin alpha chain - puff adder
 N/Alternate names: von Willebrand factor modulator protein
 C/Species: Bitis arietans (puff adder)
 C/Date: 31-Jan-1997 #sequence_revision 31-Jan-1997 #text_change 09-Jul-2004
 C/Accession: JCS058; JCS916
 R/Matsui, T.; Hamako, J.; Suzuki, M.; Hayaashi, N.; Ito, M.; Makita, K.; Fujimura, Y.; Oz
 submitted to JRPD, January 1997
 A/Description: Complete amino acid sequence of bitiscetin, a novel von Willebrand factor
 A/Reference number: JCS058
 A/Contents: snake venom
 A/Accession: JCS058
 A/Molecule type: protein
 A/Residues: 1-131 <MAT>
 A/Cross-references: UNIPROT:Q7LZK5
 A/Experimental source: snake venom
 R/Matsui, T.; Hamako, J.; Suzuki, M.; Hayaashi, N.; Ito, M.; Makita, K.; Fujimura, Y.; Oz
 Res. Commun. Biochem. Cell Mol. Biol. 1, 271-284, 1997
 A/Title: Complete amino acid sequence of bitiscetin, a novel von Willebrand factor modul
 A/Reference number: JCS916
 A/Accession: JCS916
 A/Molecule type: protein
 A/Residues: 1-131 <MA2>
 A/Experimental source: venom
 C/Comment: This protein is a modulator of a von Willebrand factor modulator.
 C/Superfamily: tetranectin; C-type lectin homology
 C/Keywords: venom
 F/4-125/Domain: C-type lectin homology <LCH>

Query Match 34.9%; Score 242.5; DB 2; Length 131;
 Best Local Similarity 38.5%; Pred. No. 4.3e-18;
 Matches 52; Conservative 23; Mismatches 45; Indels 15; Gaps 4;
 QY 1 DLECPGMSSTDRYCYKPKQEMTWASAEPCSEQAKGSHLSVETALASFDVNLVYAN 60
 DB 1 DPQCLDWSSYKHCYKFKVGTWEDAKFCVENS--GHLSIDSKREADFTKLA--- 55
 QY 61 KEYLTRYI---WIGLARVONKQGPC-----SSISYENLVDPFECFVMSRDTLRREMPKV 110
 DB 56 SQTLTFVVDAMIGLDESKTQCSPPQMTDGSVSYENVDPEFKCGLDVHTYRTMDL 115
 QY 111 DCEQSHFICKFTRP 125
 DB 116 PCEGKNPFICKSLRP 130

RESULT 8
 JCT105
 aggrecan beta chain - Malayan pit viper
 C/Species: Calloselasma rhodostoma (Malayan pit viper)
 C/Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
 C/Accession: JCT105
 R/Chung, C.H.; Au, L.C.; Huang, T.F.
 Biochem. Biophys. Res. Commun. 263, 723-727, 1999
 A/Title: Molecular cloning and sequence analysis of aggrecan, a collagen-like platelet
 A/Reference number: PC7027; PMID:99443731; PMID:10512747
 A/Accession: JCT105
 A/Molecule type: mRNA
 A/Residues: 1-146 <CHU>
 A/Cross-references: UNIPROT:Q91840
 A/Experimental source: venom gland
 C/Superfamily: tetranectin; C-type lectin homology
 C/Keywords: disulfide bond; platelet aggregation; venom

Query Match 32.4%; Score 225.5; DB 2; Length 146;
 Best Local Similarity 37.8%; Pred. No. 2.9e-16;
 Matches 48; Conservative 18; Mismatches 48; Indels 13; Gaps 5;
 QY 3 ECPGMSSTDRYCYKPKQEMTWASAEPCSEQAKGSHLSVETALASFDVNLVYANKE 62
 DB 24 DCPGMSYEGHCHYKPFDEKTMADAEKCTQGHKSHLSFISSEADTV--VTLTTPS 81
 QY 63 YLTRYIWIIGLARVONKQGPC-----SSISYENLVDPFECFVMSRDTLRREMPKVDCQSH 115

Db 82 LKANLWVWGL--SNVHGNCWQMSDARLNYKDWQWQSSC-LAFRGVH-TEWLINMDCSSST 137
 QY 116 HSFICKF 122
 Db 138 CSFVCKF 144

RESULT 9

Coagulation factor X activating enzyme (EC 3.4.24.-) light chain - Russell's viper
 C/Species: Viper russelli (Russell's viper)
 C/Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
 C/Accession: B42972
 R/Author: H.; Nishida, S.; Miyata, T.; Kawada, S.; Salsaka, Y.; Morita, T.; Iwanaga, S.
 J. Biol. Chem. 267, 14109-14117, 1992
 A/Title: Coagulation factor X activating enzyme from Russell's viper venom (RVV-X). A no
 A/Reference number: A42972; MUID:92332516; PMID:1629211
 A/Contents: V. r. slamenis
 A/Accession: B42972
 A/Status: preliminary
 A/Molecule type: protein
 A/Residues: 1-123 <TRK>
 A/Cross-references: UNIPROT:Q7LZ72
 A/Experimental source: venom
 A/Note: sequence extracted from NCBI backbone (NCBI:108408)
 C/Superfamily: tetranectin; C-type lectin homology
 C/Keywords: hydrolase; metalloproteinase; venom; zinc
 F/4-12/Domain: C-type lectin homology <LCH>
 F/4-15/32-121,98-113/Disulfide bonds: #status predicted

Query Match 31.4%; Score 218.5; DB 2; Length 123;
 Best Local Similarity 35.9%; Pred. No. 1,3e-15;
 Matches 46; Conservative 21; Mismatches 48; Indels 13; Gaps 4;

QY 2 LKPSGMSSTDRCYCYFPKQEMTWASAEPCSOAGHLLSVETLLEASFVUNVLYANK 61
 Db 2 LDCPSGMSLYEGHCYKGFNDLKWTDLEKFECKQKSHLYSLHSREEFVNLSEN 61
 QY 62 EYLRVYIWGLRVQNGQPC-----SSISYENVLPFCFVWSVSDTRLREWFKYDC 114
 Db 62 EYPA--TWGL--GNWMDCKEMSDRGVNYKALAESEYCLIMT--THEKEKSMTCNF 115
 QY 115 QHSFICKF 122
 Db 116 IAPVCKF 123

RESULT 10

bitiscetin beta chain - puff adder
 C/Species: Bitis arietans (puff adder)
 C/Date: 31-Jan-1997 #sequence_revision 31-Jan-1997 #text_change 09-Jul-2004
 C/Accession: JCS059; JCS917
 R/Author: T.; Hamako, U.; Suzuki, M.; Hayashi, N.; Ito, M.; Makita, K.; Fujimura, Y.; Oz
 submitted to JIPID, January 1997
 A/Description: Complete amino acid sequence of bitiscetin, a novel von willebrand factor
 A/Reference number: JCS058
 A/Accession: JCS059
 A/Molecule type: protein
 A/Residues: 1-125 <MAT>
 A/Cross-references: UNIPROT:Q7LZK8
 A/Experimental source: snake venom
 R/Author: T.; Hamako, U.; Suzuki, M.; Hayashi, N.; Ito, M.; Makita, K.; Fujimura, Y.; Oz
 Res. Commun. Biochem. Cell Mol. Biol. 1, 271-284, 1997
 A/Title: Complete amino acid sequence of bitiscetin, a novel von willebrand factor modul
 A/Reference number: JCS916
 A/Accession: JCS917
 A/Molecule type: protein
 A/Residues: 1-125 <MA2>
 A/Experimental source: venom
 C/Comment: This protein is a modulator of a von Willebrand factor modulator.
 C/Superfamily: tetranectin; C-type lectin homology

C/Keywords: venom
 F/4-121/Domain: C-type lectin homology <LCH>

Query Match 28.3%; Score 196.5; DB 2; Length 125;
 Best Local Similarity 34.1%; Pred. No. 2.6e-13;
 Matches 44; Conservative 22; Mismatches 50; Indels 13; Gaps 4;

QY 1 DLEPSGMSSTDRCYCYFPKQEMTWASAEPCSOAGHLLSVETLLEASFVUNVLYAN 60
 Db 1 DEGLCPDMSYKXGHCYKFEKVTWADAEKFEKELVNGHILMSVNSREGEFISKL--AL 58
 QY 61 KEYLRYIWGLRVQNGQPC-----SSISYENVLPFCFVWSVSDTRLREWFKYDC 113
 Db 59 EKMRIYLVWGL--SHFWRICPLRWTDGARLDYRALSDPICFVA--ESFHNKIOWTCN 114
 QY 114 QHSFICKF 122
 Db 115 RKKSIVCKF 123

RESULT 11

Coagulation factor IX/factor X-binding protein chain A precursor - habu
 C/Species: Trimeresurus flavoviridis (habu)
 C/Date: 16-Aug-1996 #sequence_revision 16-Aug-1996 #text_change 09-Jul-2004
 C/Accession: Jc4691; B39332; Jc4330
 R/Author: R.; Yoshitara, E.; Yamada, M.; Shima, K.; Atoda, H.; Morita, T.
 Biochem. Biophys. Res. Commun. 220, 382-387, 1996
 A/Title: cDNA cloning of IX/X-BP, a heterogeneous two-chain anticoagulant protein from br
 A/Reference number: Jc4690; MUID:96184662; PMID:8645314

A/Accession: Jc4691
 A/Molecule type: mRNA
 A/Residues: 1-146 <MAT1>
 A/Cross-references: UNIPROT:P23807; DDBJ:D83332; NID:G1402641; PIDN:BA11888.1; PID:G1402
 A/Experimental source: venom
 R/Author: H.; Hyuga, M.; Morita, T.
 J. Biol. Chem. 266, 14903-14911, 1991
 A/Title: The primary structure of coagulation factor IX/factor X-binding protein isolate
 otein, tetranectin, and lymphocyte Fc epsilon receptor for immunoglobulin E.
 A/Reference number: A39332; MUID:91332000; PMID:1831197
 A/Accession: B39332
 A/Molecule type: protein
 A/Residues: 24-146 <ATO>
 R/Author: H.; Ishikawa, M.; Yoshitara, E.; Sekiya, F.; Morita, T.
 J. Biochem. 118, 965-973, 1995
 A/Title: Blood coagulation factor IX-binding protein from the venom of Trimeresurus flav
 A/Reference number: Jc4329; MUID:96318509; PMID:8749314
 A/Accession: Jc4330
 A/Molecule type: protein
 A/Residues: 24-146 <AT2>
 C/Superfamily: tetranectin; C-type lectin homology
 C/Keywords: anticoagulant; blood coagulation; lectin; venom
 F/1-23/Domain: signal sequence #status predicted <SIG>
 F/24-146/Product: factor IX/X binding protein chain B #status predicted <MAT>
 F/25-142/Domain: C-type lectin homology <LCH>
 F/25-36,53-142,119-134/Disulfide bonds: #status predicted

Query Match 27.7%; Score 192.5; DB 2; Length 146;
 Best Local Similarity 33.1%; Pred. No. 8.1e-13;
 Matches 42; Conservative 22; Mismatches 50; Indels 13; Gaps 4;

QY 3 EDCPSGMSSTDRCYCYFPKQEMTWASAEPCSOAGHLLSVETLLEASFVUNVLYANKE 62
 Db 24 DCPDMSYKXGHCYKFEKVTWADAEKFEKELVNGHILMSVNSREGEFISKL--VLAFT 81
 QY 63 YLTRYIWGLRVQNGQPC-----SSISYENVLPFCFVWSVSDTRLREWFKYDC 115
 Db 82 FGHSLFWWGL--SNVWQNCWQMSNAPALRYKAAE--ESYCVYFKSTINKRSRACRPM 137
 QY 116 HSFICKF 122
 Db 138 AQVCKF 144

RESULT 12
B47267
botrocetin beta chain - jararaca
N:Alternate names: two chain botrocetin beta chain
C:Species: Bothrops jararaca (Jararaca)
C>Date: 21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C:Accession: B47267; C37958
R:Usami, Y.; Fujimura, Y.; Suzuki, M.; Ozeki, Y.; Nishio, K.; Fukui, H.; Titani, K.
Proc. Natl. Acad. Sci. U.S.A. 90, 928-932, 1993
A:Title: Primary structure of two-chain botrocetin, a von Willebrand factor modulator pu
A:Reference number: A47267; PMID:93157385; PMID:8430107
A:Accession: B47267
A:Molecule type: protein
A:Residues: 1-125 <USA>
A:Cross-references: UNIPROT:P22030
A:Experimental source: venom
A>Note: Sequence extracted from NCBI backbone (NCBI:P124086)
R:Fujimura, Y.; Titani, K.; Usami, Y.; Suzuki, M.; Oyama, R.; Matsui, T.; Fukui, H.; Sug
Biochemistry 30, 1957-1964, 1991
A:Title: Isolation and chemical characterization of two structurally and functionally di
A:Reference number: A37958; PMID:91129280; PMID:1993206
A:Accession: C37958
A:Molecule type: protein
A:Residues: 1-40 <FUJ>
C:Complex: heterodimer of alpha (see PIR:A47267) and beta chains
C:Superfamily: tetranectin; C-type lectin homology
C:Keyword: hemagglutinin; heterodimer; venom
F:2-121/Domain: C-type lectin homology <LCH>
F:2-13,30-121,98-113/Disulfide bonds: #status experimental
F:75/Disulfide bonds: interchain (to alpha-80) #status experimental

Query Match 27.6%; Score 191.5; DB 2; Length 125;
Best Local Similarity 35.1%; Pred. No. 8.6e-13;
Matches 46; Conservative 25; Mismatches 41; Indels 19; Gaps 8;

QY 3 ECPGWSSTDRYCYKPKQEMTWASAEFCSEQAKGHLISVETALASFDVNLVANKK 62
Db 1 DCPDMSVYEGHCYKRFKEMWMDABEFTQGTGHLVPSQSKEDPVRL---TSE 57
QY 63 YLT-RITWIGLR-VQNKGPC-----SSISYEN-LVDPFCFMSRDLRLRFKVD 111
Db 58 MKGDDVVMWIGLSDVMNK---GFEWTDGMEDYDDYLLAEVYC-VASKEFTN-NKWWIIP 112
QY 112 CEQHSFICK 122
Db 113 CTREKNFVCEP 123

RESULT 13
JC2415
echicetin beta chain - saw-scaled viper
C:Species: Echis carinatus (saw-scaled viper)
C>Date: 21-Mar-1995 #sequence_revision 26-May-1995 #text_change 09-Jul-2004
C:Accession: JC2415
R:Peng, M.; Holt, J.C.; Niewiarowski, S.
Biochem. Biophys. Res. Commun. 205, 68-72, 1994
A:Title: Isolation, characterization and amino acid sequence of echicetin beta subunit,
A:Reference number: JC2415; PMID:95091801; PMID:7999097
A:Accession: JC2415
A:Molecule type: protein
A:Residues: 1-123 <PEN>
A:Cross-references: UNIPROT:P81996
A:Experimental source: venom
C:Comment: This protein inhibits agglutination of fixed platelets induced by several pla
11brand factor and alsoaggregins.
C:Superfamily: tetranectin; C-type lectin homology
C:Keyword: anticoagulant; dimer
F:2-119/Domain: C-type lectin homology <LCH>
F:2-13,30-119,96-111/Disulfide bonds: #status predicted

Query Match 25.8%; Score 179.5; DB 2; Length 123;
Best Local Similarity 30.4%; Pred. No. 1.5e-11;

Matches 38; Conservative 23; Mismatches 51; Indels 13; Gaps 4;
QY 4 CPGWSSTDRYCYKPKQEMTWASAEFCSEQAKGHLISVETALASFDVNLVANKK 63
Db 2 CLPDMSVYEGHCYKRFKEMWMDABEFTQGTGHLVPSQSKEDPVRL---TSE 57
QY 64 LRTYIWIGLR-VQNKGPC-----SSISYEN-LVDPFCFMSRDLRLRFKVD 111
Db 61 -MELWVIGL--SDYRDCYWNESDGLDYKAVDNRHCF--AAKTDDNQWRRKSGER 115
QY 117 SFICK 121
Db 116 YFVCK 120

RESULT 14
S56006
tokaracetin alpha chain - Trimeresurus tokarensis (fragment)
N:Alternate names: platelet aggregation inhibitor; platelet antagonist
C:Species: Trimeresurus tokarensis
C>Date: 10-Oct-1995 #sequence_revision 08-Nov-1996 #text_change 09-Jul-2004
C:Accession: S56006
R:Kawasaki, T.; Taniuchi, Y.; Hisamichi, N.; Fujimura, Y.; Suzuki, M.; Titani, K.; Sakai,
Biochem. J. 308, 947-953, 1995
A:Title: Tokaracetin, a new platelet antagonist that binds to platelet glycoprotein Ib ar
A:Reference number: S56006; PMID:97104297; PMID:8948455
A:Accession: S56006
A:Molecule type: protein
A:Residues: 1-40 <KAW>
A:Cross-references: UNIPROT:Q7L2K6
C:Superfamily: tetranectin; C-type lectin homology

Query Match 24.2%; Score 168; DB 2; Length 40;
Best Local Similarity 70.0%; Pred. No. 6.9e-11;
Matches 28; Conservative 3; Mismatches 9; Indels 0; Gaps 0;
QY 3 ECPGWSSTDRYCYKPKQEMTWASAEFCSEQAKGHL 42
Db 1 DCPDMSVYEGHCYKRFKEMWMDABEFTQGTGHLV 40

RESULT 15
RGHUIA
regenerating islet lectin 1-alpha precursor [validated] - human
N:Alternate names: lithostathine; pancreatic thread protein (PTP); reg I protein; reg1-a)
N:Contains: pancreatic stone protein (PSP)
C:Species: Homo sapiens (man)
C>Date: 31-Mar-1990 #sequence_revision 03-Aug-1995 #text_change 09-Jul-2004
C:Accession: A35197; B28351; S12950; S02767; S02419; S00113; S01471; A25246
R:Matanabe, T.; Yonekura, H.; Terazono, K.; Yamamoto, H.; Okamoto, H.
J. Biol. Chem. 265, 7432-7439, 1990
A:Title: Complete nucleotide sequence of human reg gene and its expression in normal and
product of the gene.
A:Reference number: A35197; PMID:90237042; PMID:2332435
A:Accession: A35197
A:Molecule type: DNA
A:Residues: 1-166 <WAT>
A:Cross-references: UNIPROT:P05451; GB:J05412
R:Terazono, K.; Yamamoto, H.; Takasawa, S.; Shiga, K.; Yonemura, Y.; Tochino, Y.; Okamoto,
J. Biol. Chem. 263, 2111-2114, 1988
A:Title: A novel gene activated in regenerating islets.
A:Reference number: A92704; PMID:88115343; PMID:2963000
A:Accession: B28351
A:Molecule type: mRNA
A:Residues: 1-166 <TER>
A:Cross-references: UNIPROT:P05451; PIDN:AAA6558.1; PID:G190979
R:Itano, T.; Tanuchi, H.; Katoh, T.; Teraoka, H.; Matsumoto, K.; Yoshida, N.; Terazono, K.
FEBS Lett. 272, 85-88, 1990
A:Title: Isolation and characterization of human reg protein produced in Saccharomyces ce
A:Reference number: S12950; PMID:91032149; PMID:2226837
A:Accession: S12950
A:Molecule type: protein
A:Residues: 23-52;160-166 <ITO>

A>Note: sequence determined from protein isolated after human CDNA sequence was cloned a
 R:de Caro, A.M.; Adrich, Z.; Fournet, B.; Capon, C.; Bonicel, J.J.; de Caro, J.D.; Rover
 Biochim. Biophys. Acta 994, 281-284, 1999
 A>Title: N-terminal sequence extension in the glycosylated forms of human pancreatic stc
 A:Reference number: S024197, PMID:89150232, PMID:2493268
 A:Accession: S02419
 A:Molecule type: protein
 A:Residues: 23-47 <DEC>
 R:Roumi, P.; de Caro, J.; Bonicel, J.; Rovey, M.; de Caro, A.
 FEBS Lett. 229, 171-174, 1988
 A>Title: The disulfide bridges of the immunoreactive forms of human pancreatic stone pro
 A:Reference number: S024197, PMID:88029417, PMID:3655916
 A:Accession: S02419
 A:Molecule type: protein
 A:Residues: 63-72;125-139;150-157;160-166 <ROU>
 A>Note: disulfide bonds
 R:de Caro, A.M.; Bonicel, J.J.; Roumi, P.; de Caro, J.D.; Sarles, H.; Rovey, M.
 Eur. J. Biochem. 168, 201-207, 1987
 A>Title: Complete amino acid sequence of an immunoreactive form of human pancreatic ston
 A:Reference number: S00113, PMID:88029417, PMID:3655916
 A:Accession: S00113
 A:Molecule type: protein
 A:Residues: 34-166 <DEA>
 R:Roumi, P.; Bonicel, J.; Rovey, M.; de Caro, A.
 FEBS Lett. 216, 195-199, 1987
 A>Title: Cleavage of the Arg-116 bond in the native polypeptide chain of human pancreati
 A:Reference number: S01471, PMID:87219142, PMID:3108036
 A:Accession: S01471
 A:Molecule type: protein
 A:Residues: 33-48 <RO2>
 R:Montalto, G.; Bonicel, J.; Multigner, L.; Rovey, M.; Sarles, H.; De Caro, A.
 Biochem. J. 238, 227-232, 1986
 A>Title: Partial amino acid sequence of human pancreatic stone protein, a novel pancreat
 A:Reference number: A25246; PMID:8709950; PMID:3541906
 A:Accession: A25246
 A:Molecule type: protein
 A:Residues: 34-73;75-87;89-98 <MON>
 C/Comment: This protein is found in pancreatic calculi of mammals. The tryptic-like clea
 C/Comment: Intact regenerating islet lectin 1-alpha, lithostathine, inhibits the growth
 C/Genetics:
 A:Gene: GDB:REG1A; REG
 A:Cross-references: GDB:132455; OMIM:167770
 A:Map position: 2p12-2p12
 A:Introns: 22/1; 61/3; 107/3; 145/1
 C:Superfamily: tetralectin; C-type lectin homology
 C:Keywords: glycoprotein; lectin; pancreas; pyroglytamic acid
 F:1-22/Domain: signal sequence #status predicted <SIG>
 F:23-166/Product: regenerating islet lectin 1-alpha #status experimental <MAT>
 F:34-166/Product: pancreatic stone protein #status experimental <MAT>
 F:36-162/Domain: C-type lectin homology <LCH>
 F:33/Modified site: pyroglutamate carboxylic acid (Gln) (in mature form) #status experimen
 F:27/Binding site: carbohydrate (Thr) (covalent) #status experimental
 F:33-34/Cleavage site: Arg-116 (tryptin) #status experimental
 F:36-47,64-162,137-154/Disulfide bonds: #status experimental

Query Match 24.2%; Score 168; DB 1; Length 166;
 Best Local Similarity 31.1%; Pred. No. 3.4e-10;
 Matches 42; Conservative 25; Mismatches 50; Indels 18; Gaps 5;

QY 2 LKPSGMSSTDRYCYKPFQEMTWASAEFSCSEQAKGHLSEVETALASFPDNLVYANK 61
 DB 34 ISCPGNTNAYRSCYFNEDRETWDADLYC-QNNNSGNTLVSLTQAEQAFVASTL--K 89
 QY 62 EYLTR--YIWIIGLRVONKQ-----PCSSISYE-----NLVDPFECFMSRDTLRLEW 107
 DB 90 ESGTDDFNWIGLHDPKRRRWMSGSLVYSKMGIGAPSSVNPQYCVSLTSTGFQKX 149
 QY 108 FYVDEQGHSHFICKF 122
 DB 150 KDVPCEDKFSPVCKF 164

RESULT 16

A45751
 Pancreatic stone protein precursor - human
 C/Species: Homo sapiens (man)
 C/Date: 03-Jun-1993 #sequence_revision 03-Jun-1993 #text_change 09-Jul-2004
 C/Accession: A45751
 R:Giorgi, D.; Bernard, J.P.; Rouquier, S.; Iovanna, J.; Sarles, H.; Dagorn, J.C.
 J. Clin. Invest. 84, 100-106, 1989
 A>Title: Secretory pancreatic stone protein messenger RNA. Nucleotide sequence and expres
 A:Reference number: A45751; PMID:89292148; PMID:2525567
 A:Accession: A45751
 A>Status: preliminary; not compared with conceptual translation
 A:Molecule type: mRNA
 A:Residues: 1-166 <GIO>
 A/Cross-references: UNIPROT:P05451; GB:M27190; NID:9623412; PIDN:AAA60546.1; PID:9623413
 C:Superfamily: tetralectin; C-type lectin homology
 F:36-162/Domain: C-type lectin homology <LCH>

Query Match 24.2%; Score 168; DB 2; Length 166;
 Best Local Similarity 31.1%; Pred. No. 3.4e-10;
 Matches 42; Conservative 25; Mismatches 50; Indels 18; Gaps 5;

QY 2 LKPSGMSSTDRYCYKPFQEMTWASAEFSCSEQAKGHLSEVETALASFPDNLVYANK 61
 DB 34 ISCPGNTNAYRSCYFNEDRETWDADLYC-QNNNSGNTLVSLTQAEQAFVASTL--K 89
 QY 62 EYLTR--YIWIIGLRVONKQ-----PCSSISYE-----NLVDPFECFMSRDTLRLEW 107
 DB 90 ESGTDDFNWIGLHDPKRRRWMSGSLVYSKMGIGAPSSVNPQYCVSLTSTGFQKX 149
 QY 108 FYVDEQGHSHFICKF 122
 DB 150 KDVPCEDKFSPVCKF 164

RESULT 17

S29822
 Pancreatitis-associated protein - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 02-Dec-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
 C/Accession: S29822
 R:Itou, T.; Terakura, H.
 Biochim. Biophys. Acta 1172, 184-186, 1993
 A>Title: Cloning and tissue-specific expression of cDNAs for the human and mouse homology
 A:Reference number: S29821; PMID:93176807; PMID:7679928
 A:Accession: S29822
 A>Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-175 <ITO>
 A/Cross-references: UNIPROT:P35230; GB:D13509; NID:9286106; PIDN:BA02727.1; PID:9286107
 C:Superfamily: tetralectin; C-type lectin homology
 F:40-171/Domain: C-type lectin homology <LCH>

Query Match 23.7%; Score 164.5; DB 2; Length 175;
 Best Local Similarity 30.0%; Pred. No. 8.3e-10;
 Matches 42; Conservative 20; Mismatches 57; Indels 21; Gaps 4;

QY 2 LKPSGMSSTDRYCYKPFQEMTWASAEFSCSEQAKGHLSEVETALASFPDNLVYANK 60
 DB 38 ISCPGMSQAYGSCYALFIPQTFDADLAC-QKRPQGLHVSILMSAEASFLSSWVKRTG 96
 QY 61 KYLRLRYIWIIGLRVONKQPCSSISYE-----NLVDPFECFMSRDTLR 103
 DB 97 NSY--QYTWIGLHDPKRRRWMSGSLVYSKMGIGAPSSVNPQYCVSLTSTGFQKX 154
 QY 104 LRFVDEQGHSHFICKF 123
 DB 155 FLKRDMTCEVTLPYCKFT 174

RESULT 18

B47148
 reg II, regenerating islet cells - mouse
 C/Species: Mus musculus (house mouse)

C>Date: 03-May-1994 #sequence_revision 03-May-1994 #text_change 09-Jul-2004
C/Accession: B47148
R/Umo, M.; Yonekura, H.; Nakagawara, K.; Watanabe, T.; Miyashita, H.; Morizumi, S.; Okajima, A.
J. Biol. Chem. 268, 15974-15982, 1993
A>Title: Structure, chromosomal localization, and expression of mouse reg genes, reg I and reg II.
A/Reference number: A47148; MUID:93340209; PMID:8340418
A/Accession: B47148
A>Status: preliminary
A/Molecule type: DNA
A/Residues: 1-173 <UNN>
C/Cross-references: UNIPROT:Q08731, GB:D14011; NID:g391773; PIDN:BA03112.1; PID:g391774
C/Genetics:
A/Intons: 22/1; 68/3; 114/3; 152/1
C/Superfamily: tetranectin; C-type lectin homology
F/43-169/Domain: C-type lectin homology <LCH>
F/43-54, 71-169, 144-161/Distulfide bonds: #status predicted

Query Match 22.7%; Score 158; DB 2; Length 173;
Best Local Similarity 28.9%; Pred. No. 3.9e-09;
Matches 39; Conservative 27; Mismatches 51; Indels 18; Gaps 5;

Dy 2 LECPSGMSSTDYCYKPFCKEMTWASAEPRCEQAKGHLLSVTALEASFVDNYANK 61
|||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Dy 41 INCPEGANAVGYCYVYLIEDRLTWGBADLF-C-QNMNGHLVSIISQAESNVALV--K 96
|||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Dy 62 EYLT-RYIMGLR-VONKGPCSSISY-----ENLVDPFCFMSVRTLRREW 107
|||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Dy 97 ESGTTASNVTWGLMDPKSNRMHWSGGSLFLFKSWATGAPSTANGCVSLTSMAYKKW 156
|||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Oy 108 FKVDCEOHSPICFKE 122
|||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 157 KDENCEAOYSFVCKE 171

RESULT 19
A41719
pancreatic stone protein 2 precursor - rat
N/Alternate names: pancreaticitis-associated protein; regenerating protein 2
C/Species: Rattus norvegicus (Norway rat)
C/Date: 16-Oct-1992 #sequence_revision 16-Oct-1992 #text_change 09-Jul-2004
C/Accession: A37456; A59313; I51899; JCI257; A41719
R/Dusetti, N.J.; Frigerio, J.M.; Keim, V.; Dagorn, J.C.; Iovanna, J.L.
J. Biol. Chem. 268, 14470-14475, 1993
A>Title: Structural organization of the gene encoding the rat pancreatitis-associated protein on domain-containing genes.
A/Reference number: A37456; MUID:93300847; PMID:8314803
A/Accession: A37456
A/Molecule type: DNA
A/Residues: 1-175 <DUSt>
A/Cross-references: UNIPROT:P25031, GB:L07127; NID:g349550
A/Experimental source: Strain Mstar; tissue type liver
A/Note: only intron/exon boundaries are shown; exon I and the beginning of exon II are deletion of the open reading frame to an AUG codon in exon I is shown in accession A59313
R/Dusetti, N.J.; Frigerio, J.M.; Keim, V.; Dagorn, J.C.; Iovanna, J.L.
submitted to Genbank, August 1993
A/Reference number: A59313
A/Accession: A59313
A>Status: not compared with conceptual translation
A/Molecule type: DNA
A/Residues: MMRYKV, 1-175 <DUSt>
A/Cross-references: GB:L07127; NID:g349550; PIDN:AAA1805.1; PID:g349551
R/Iovanna, J.L.; Keim, V.; Bosshard, A.; Orell, B.; Frigerio, J.M.; Dusetti, N.; Dagorn, J.L.
Am. J. Physiol. 265, G611-G618, 1993
A>Title: PzP, a pancreatic secretory protein induced during acute pancreatitis, is expressed by acinar cells.
A/Reference number: I51899; MUID:94056762; PMID:8238345
A/Accession: I51899
A>Status: preliminary; translated from GB/EMBL/DBDJ
A/Molecule type: mRNA
A/Residues: 1-175 <IOVt>
A/Cross-references: GB:M80049; NID:g393210; PIDN:AAA16341.1; PID:g393211
A/Note: in Genbank entry RAHPAC, release 113.0, the source is designated as Rattus rattus
R/Kamimura, T.; West, C.; Beutler, E.

Gene 118, 299-300, 1992
A:Title: Sequence of a cDNA clone encoding a rat Reg-2 protein.
A:Reference number: JCI1257; MUID:92380521; PMID:1511905
A:Accession: UCI1257
A:Molecule type: mRNA
A:Residues: 1-6, 'S', '8-175 <KAM>
A:Cross-references: GB:843715; NID:9254694; PIDN:AAB23103.1; PID:9254695
R:Yonuma, J., Orelle, B., Keim, V., Dagorn, J.C.
J: Biol. Chem. 266, 24664-24669, 1991
A:Title: Messenger RNA sequence and expression of rat pancreatitis-associated protein, a
A:Reference number: A41719; MUID:92105133; PMID:1722211
A:Accession: A41719
A:Molecule type: mRNA
A:Residues: 1-175 <IOV2>
A:Cross-references: GB:M55149; NID:9206030; PIDN:AAA41807.1; PID:9206031
A:Note: the amino-terminal residue of the mature protein was identified as Glu
C:Genetics:
A:Gene: pap
A:Introns: 26/1; 65/3; 111/3; 154/1
A:Note: the first intron occurs before the initiator codon
C:Superfamily: tetranectin; C-type lectin homology
C:Keywords: lectin; pancreas
F:1-26/Domain: signal sequence #status predicted <SIG>
F:27-175/Product: pancreatitis-associated protein #status experimental <MAT>
F:40-171/Domain: C-type lectin homology <LCH>
F:40-51,68-171,146-163/Disulfide bonds: #status predicted

Query Match 22.7%; Score 157.5; DB 2; Length 175;
Best Local Similarity 30.2%; Pred. No. 4, 5e-09;
Matches 42; Conservative 21; Mismatches 57; Indels 19; Gaps 5;

OY 2 LECPSGWSSTDRYCYKPKQEWMTWASAEKFCSEQAKGHLSTETALAEAFVNVLYANK 61
DB 38 ISCPGSGAAYGSCYCALFPIQTFDEALACQKRP-GLHVSILNVAEAFPLASMV-KNT 95
OY 62 EYLPTWYIGLGRVQ-N-KGQPCSS-----ISYEN-----LVDPFCFMVSRDTRL 104
DB 96 GNSVQYTWIGLHDPFLGGEPPNGCGWENNDIMVNWERNPSTALDRGFCGSLRSRGF 155
OY 105 REWFKVDCQCHSFICKPT 123
DB 156 LRMRDTCEVKLPIYCKPT 174

RESULT 20
A47148
reg I, regenerating islet cells - mouse
C:Species: Mus musculus (house mouse)
C:Date: 03-May-1994 #sequence_revision 03-May-1994 #text_change 09-Jul-2004
C:Accession: A47148
R:Umno, M.; Yonekura, H.; Nakagawara, K.; Watanabe, T.; Miyashita, H.; Morizumi, S.; Ok
J: Biol. Chem. 268, 15974-15982, 1993
A:Title: Structure, chromosomal localization, and expression of mouse reg genes, reg I a
A:Reference number: A47148; MUID:93340209; PMID:8340418
A:Accession: A47148
A:Status: Preliminary
A:Molecule type: DNA
A:Residues: 1-165 <UNN>
A:Cross-references: UNIPROT:P43137; GB:D14010; NID:9391771; PIDN:BA003111.1; PID:9391772
C:Genetics:
A:Introns: 21/1; 60/3; 106/3; 144/1
C:Superfamily: tetranectin; C-type lectin homology
F:35-161/Domain: C-type lectin homology <LCH>
F:35-46,63-161,136-153/Disulfide bonds: #status predicted

Query Match 22.3%; Score 155; DB 2; Length 165;
Best Local Similarity 27.5%; Pred. No. 7, 7e-09;
Matches 39; Conservative 26; Mismatches 45; Indels 32; Gaps 5;

OY 2 LECPSGWSSTDRYCYKPKQEWMTWASAEKFCSEQAKGHLSTETALAEAFVNVLYANK 61
DB 33 ISCPGSGAAYGSCYTFTRDRLTMADADLFC-QNNMSGILVSVLSQAEGRFVASLI---K 88

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QY      62 EVLT--RYTWIGLRVONK-----GQPCSSISTEYNTLNDPEECWVR 100
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
DB      89 ESCTDANWNTGSHDKPRNRMRWMSGSLFLYKSMATGSPNS-----NRGYCVSLTS 141
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
QY      101 DFLREMFVKDCQOHSFICKF 122
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
DB      142 NTGYKMKDKNDCAQTSFVCKF 163

RESULT 21
A37194
pancreatic thread protein precursor - bovine
C:Species: Bos primigenius taurus (cattle)
C:Update: 31-Jan-1992 #sequence_revision 31-Jan-1992 #text_change 09-Jul-2004
C:Accession: A37194; A53897
R:de la Monte, S.M.; Ozuturk, M.; Wands, J.R.
J. Clin. Invest. 86, 1004-1013, 1990
A:Title: Enhanced expression of an exocrine pancreatic protein in Alzheimer's disease and
A:Reference number: A37194; MUID:90368981; PMID:2394626
A:Accession: A37194
A:Molecule type: mRNA
A:Residues: 1-175 <DEL>
A:Cross-references: UNIPROT:P23132; GB:M59794; NID:G163648; PIDN:AAA0750.1; PID:G163648
R:Cai, L.; Harris, W.R.; Marshak, D.R.; Gross, J.; Crabbe, J.W.
J. Protein Chem. 9, 623-632, 1990
A:Title: Structural analysis of bovine pancreatic thread protein.
A:Reference number: A53897; MUID:91197388; PMID:2085387
A:Accession: A53897
A:Molecule type: protein
A:Residues: 38-138;141-175 <CAI>
A:Comment: The purified protein undergoes a reversible globule-fibril transformation and
C:Superfamily: tetranectin; C-type lectin homology
C:Keywords: disulfide bond; extracellular protein; pancreas
F:38-138/Product: pancreatic thread protein chain A #status experimental <ACH>
F:40-171/Domains: C-type lectin homology <LCH>
F:141-175/Product: pancreatic thread protein chain B #status experimental <BOH>

Query Match      22.2%; Score 154.5; DB 2; Length 175;
Best Local Similarity 30.2%; Pred. No. 9.2e-09;
Matches 42; Conservative 19; Mismatches 59; Indels 19; Gaps 4;

QY      2 LECPSGMSSTDRYCYKPFQEMTWASAEKFCSEQAKGHLSEVETLEASFDVNVLYAK 61
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
DB      38 ICSFGSMAYRSHCYALFPTKPTMDADLAC-QKPSGHLVSLGAEBSFVAS-LVRNN 95
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
QY      62 EYLTRYTWIGLRVONKQPCSSISYE-----NLV-----DPEECFWMSRDL 104
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
DB      96 LMTQSDIWIQLHDPTEGSEANMGWEMISNDVINYAMETDPAISPGVCSLSRSGY 155
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
QY      105 REMFVKVDCQOHSFICKF 123
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
DB      156 LKWRDHNCNLNLPYVCKF 174

RESULT 22
A49616
pancreatitis-associated protein precursor - human
N:Alternate names: C-type lectin; pancreatic stone protein homology HIP
C:Species: Homo sapiens (man)
C:Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 09-Jul-2004
C:Accession: A49616; A44931; S29821; S48197; I55580
R:Busceti, N.J.; Frigerio, J.M.; Fox, M.F.; Swallow, D.M.; Dagorn, J.C.; Iovanna, J.L.
Genomics 19, 108-114, 1994
A:Title: Molecular cloning, genomic organization, and chromosomal localization of the hu
A:Reference number: A49616; MUID:94245143; PMID:8188210
A:Accession: A49616
A:Molecule type: DNA
A:Residues: 1-175 <DUS>
A:Cross-references: UNIPROT:Q06141; GB:L15533; NID:G482908; PIDN:AAA60020.1; PID:G482909
R:Lasserre, C.; Christa, L.; Simon, M.T.; Vernier, P.; Brechot, C.
Cancer Res. 52, 5089-5095, 1992
A:Title: A novel gene (HIP) activated in human primary liver cancer.
A:Reference number: A44931; MUID:92386513; PMID:1325291

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A:Accession: A44931
A:Molecule type: mRNA
A:Residues: 1-175 <LAS>
A:Cross-references: GB:H68641; NID:G312806; PIDN:CAA48605.1; PID:G312807
A:Experimental source: hepatocellular carcinoma
A>Note: sequence extracted from NCBI backbone (NCBIN:113007, NCBI:113008)
R:Ichih, T.; Teraoka, H.
Biochim. Biophys. Acta 1172, 184-186, 1993
A:Title: Cloning and tissue-specific expression of cDNAs for the human and mouse homology
A:Reference number: S29821; MUID:93176807; PMID:7679928
A:Accession: S29821
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-175 <ITO>
A:Cross-references: GB:D13510; NID:G285970; PIDN:BA02728.1; PID:G285971
R:Lasserre, C.; Simon, M.T.; Ishikawa, H.; Dirlong, S.; Nguyen, V.C.; Christa, L.; Vernier
Eur. J. Biochem. 224, 29-38, 1994
A:Title: Structural organization and chromosomal localization of a human gene (HIP/PAP)
A:Reference number: S48197; MUID:94357229; PMID:8076648
A:Accession: S48197
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-175 <LA2>
R:Orrelle, B.; Keim, V.; Masciotra, L.; Dagorn, J.C.; Iovanna, J.L.
J. Clin. Invest. 90, 2284-2291, 1992
A:Title: Human pancreatitis-associated protein. Messenger RNA cloning and expression in f
A:Reference number: I55580; MUID:93107309; PMID:1469087
A:Accession: I55580
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-175 <RES>
A:Cross-references: GB:SS1768; NID:G262368; PIDN:AAB24642.1; PID:G262369
C:Genes: GDB:PAP; HIP
A:Cross-references: GDB:136839; OMIM:167805
A:Map position: 2p12-2p12
A:Intons: 26/1; 65/3; 111/3; 154/1
C:Superfamily: tetranectin; C-type lectin homology
C:Keywords: acute phase; extracellular protein; pancreas
F:1-26/Domains: signal sequence #status predicted <SIG>
F:27-175/Product: pancreatitis-associated protein #status predicted <MAT>
F:40-171/Domains: C-type lectin homology <LCH>
F:40-51,68-171,146-163/Disulfide bonds: #status predicted

Query Match      22.1%; Score 153.5; DB 2; Length 175;
Best Local Similarity 25.7%; Pred. No. 1.2e-08;
Matches 36; Conservative 24; Mismatches 59; Indels 21; Gaps 4;

QY      2 LECPSGMSSTDRYCYKPFQEMTWASAEKFCSEQAKGHLSEVETLEASFDVNVLYA-N 60
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
DB      38 IRCPKGSKAYGSHCYALFSPKSWTDADLAC-QKPSGNTVSLGAEBSFVSSLVKSIG 96
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
QY      61 KEYLTRYTWIGLRVONKQPCSSISYE-----NLVDPPECFWMSRDLR 103
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
DB      97 NSY--SYWIGLHDPDTQGTENPGCEWSSSDVINYAMERNPSTISSFGHCASLSRSTA 154
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
QY      104 IREMFVKVDCQOHSFICKF 123
      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
DB      155 FLRWMDYNNVNLNLPYVCKF 174

RESULT 23
A28351
pancreatic stone protein precursor - rat
N:Alternate names: lithostathine
C:Species: Rattus norvegicus (Norway rat)
C:Update: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 09-Jul-2004
C:Accession: A28351; A39081; F10147; S34618
R:Perizzono, K.; Yamamoto, H.; Takasawa, S.; Shiga, K.; Yonemura, Y.; Tochino, Y.; Okamoto
J. Biol. Chem. 263, 2111-2114, 1988
A:Title: A novel gene activated in regenerating islets.
A:Reference number: A92704; MUID:88115343; PMID:2963000
A:Accession: A28351

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A54423
Brevican precursor - bovine
C:Species: Bos primigenius taurus (cattle)
C:Date: 09-Sep-1994 #sequence_revision 09-Sep-1994 #text_change 09-Jul-2004
C:Accession: A54423; S41914
R:Yamada, H.; Matanabe, K.; Shimomura, M.; Yamaguchi, Y.
J: Biol. Chem. 269, 10119-10126, 1994
A:Title: Molecular cloning of brevican, a novel brain proteoglycan of the aggrecan/versican family
A:Reference number: A54423; MUID:94193597; PMID:8145412
A:Accession: A54423
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-912 <YAM>
A:Cross-references: UNIPROT:Q28062; GB:X75887; NID:9452820; PIDN:CA53481.1; PID:9452821
C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EG
F:50-139/Domain: immunoglobulin homology <IM>
F:174-251/Domain: link protein repeat homology <LNK1>
F:272-353/Domain: link protein repeat homology <LNK2>
F:651-682/Domain: EGF homology <EGF>
F:689-809/Domain: C-type lectin homology <LCH>
F:816-872/Domain: complement factor H repeat homology <FHD>

Query Match 20.6%; Score 143.5; DB 2; Length 912;
Best Local Similarity 28.8%; Pred. No. 8.2e-07;
Matches 46; Conservative 10; Mismatches 51; Indels 53; Gaps 7;

QY 4 CPSSGMSSTRDYCYKPFQKMTWASAEFCSEQAQKGLHLSVETALASFDVNLVANKY 63
DB 689 CSPGMDAFQACVCKHPSARSWEALNKC--RMVGHSLASISPEQDPINN-----R 739
QY 64 LRRYIWTIGLRVQ-----NKGPCSS-SISEYLVDFPECFMRSRDR 103
DB 740 YREYQWIGLNDRTIEGDFLMSDGVPLLYENMNPQDPSYFLGECNV-----VMWHDQ- 793
QY 104 LREMFVDEQGHSPICK-----FTRPR 126
DB 794 -GQMSDVPNCVNHLSYTCMGLVSCGPPPLALAEVGRFR 832

RESULT 27
A28452
proteoglycan core protein precursor, cartilage - rat
N:Alternate names: aggrecan
C:Species: Rattus norvegicus (Norway rat)
C:Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change 09-Jul-2004
C:Accession: A92623; A23835; A28095; A28452
R:Doerge, K.; Saasaki, M.; Horigan, E.; Hassell, J.R.; Yamada, Y.
J: Biol. Chem. 262, 17757-17767, 1987
A:Title: Complete primary structure of the rat cartilage proteoglycan core protein deduced from complementary DNA
A:Reference number: A92623; MUID:88087070; PMID:3693370
A:Accession: A92623
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-2124 <DOE>
A:Cross-references: UNIPROT:P07897
R:Doerge, K.; Saasaki, M.; Horigan, E.; Hassell, J.R.; Yamada, Y.
J: Biol. Chem. 263, 10040A, 1988
A:Reference number: A30069
A:Contents: annotation; revision to residue 698
R:Doerge, K.; Fernandez, P.; Hassell, J.R.; Saasaki, M.; Yamada, Y.
J: Biol. Chem. 261, 8108-8111, 1986
A:Title: Partial cDNA sequence encoding a globular domain at the C terminus of the rat core protein
A:Reference number: A23835; MUID:86250698; PMID:2424893
A:Accession: A23835
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1856-2124 <DOE>
A:Cross-references: GB:M1518; NID:9206104; PIDN:AAA1836.1; PID:9206105
R:Neame, P.J.; Christner, J.E.; Baker, J.R.
J: Biol. Chem. 262, 17768-17778, 1987
A:Title: Cartilage proteoglycan aggregates. The link protein and proteoglycan amino-term
A:Reference number: A28453; MUID:88087071; PMID:3693371
A:Accession: A28453
A:Molecule type: protein
A:Residues: 20-37, 'W', 39-60, 'E', 62-64, 'X', 66-69; 70-83; 84, 89-148, 'L', 150-238, 'S', 240, 'A',

C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EGF
C:Keywords: glycoprotein
F:1-19/Domain: signal sequence #status predicted <SIG>
F:20-2124/Product: proteoglycan core protein #status predicted <MAT>
F:44-135/Domain: immunoglobulin homology <IM>
F:170-247/Domain: link protein repeat homology <LNK1>
F:268-349/Domain: link protein repeat homology <LNK2>
F:504-581/Domain: link protein repeat homology <LNK3>
F:602-683/Domain: link protein repeat homology <LNK4>
F:1914-2034/Domain: C-type lectin homology <LCH>
F:2041-2097/Domain: complement factor H repeat homology <FHD>
F:126,239,333,387,611,667,1842/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 20.6%; Score 143; DB 2; Length 2124;
Best Local Similarity 32.3%; Pred. No. 2.4e-06;
Matches 43; Conservative 12; Mismatches 54; Indels 24; Gaps 7;

QY 3 EPPSSGMSSTRDYCYKPFQKMTWASAEFCSEQAQKGLHLSVETALASFDVNLVANKY 62
DB 1913 QCEBMTWTFQGHCVHFPDRETFWDAERCREQO--SHLSIVPEEDEFV-----NKN 1964
QY 63 YLRYIWTIGLRVQ-----KQPCSSISYE--NLVDPF-----ECFVSRDTRLEWF 108
DB 1965 -AQDYQWIGLNDRTIEGDFRMSDGLQFEEKRPQPNFATGDCVVMWHER-GEVN 2022
QY 109 KVDCEQGHSPICK 121
DB 2023 DVPNCVQLPFTCK 2035

RESULT 28
A55182
aggrecan precursor - mouse
C:Species: Mus musculus (house mouse)
C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C:Accession: A55182; S55329; S50207; S51355; I78532; I58123
R:Malcz, B.; Deak, F.; Ehrhart, P.; Coulter, S.N.; Fuellep, C.; Horvath, P.; Doerge, K.J.;
Genomics 22, 364-371, 1994
A:Title: Complete coding sequence, deduced primary structure, chromosomal localization, &
A:Reference number: A55182; MUID:95104847; PMID:7806222
A:Accession: A55182
A:Status: preliminary; nucleic acid sequence not shown; translation not shown
A:Molecule type: mRNA
A:Residues: 1-2132 <MAL>
A:Cross-references: UNIPROT:Q61282; GB:L07049; NID:9678541; PIDN:AAC37670.1; PID:9191772
R:Matanabe, H.; Gao, L.; Sugiyama, S.; Doerge, K.; Kimata, K.; Yamada, Y.
Biochem. J. 308, 433-440, 1995
A:Title: Mouse aggrecan, a large cartilage proteoglycan: protein sequence, gene structure
A:Reference number: S55329; MUID:95289972; PMID:7772024
A:Accession: S55329
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-567, 'G', 569-1728, 'I', 1730-2132 <MAT>
A:Cross-references: GB:U22901; NID:9886014
R:Glimoff, V.; Savontaus, M.; Vehanen, J.;
Biochem. Biophys. Acta 1219, 613-622, 1994
A:Title: Analysis of aggrecan and tenascin gene expression in mouse skeletal tissues by
A:Reference number: S50206; MUID:95035091; PMID:7524681
A:Accession: S50207
A:Molecule type: mRNA
A:Residues: 350-481, 'R', 483-506 <GLU1>
A:Cross-references: EMBL:X80279; NID:9673432
R:Glimoff, V.
submitted to the EMBL Data Library, July 1994
A:Reference number: S51355
A:Accession: S51355
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 350-383, 'CPVMSQRRPMAA' <GLU2>
A:Cross-references: EMBL:X80279
R:Matanabe, H.; Kimata, K.; Line, S.; Strong, D.; Gao, L.Y.; Kozak, C.A.; Yamada, Y.
Nature Genet. 7, 154-157, 1994
A:Title: Mouse cartilage matrix deficiency (cmd) caused by a 7 bp deletion in the aggrecan

A:Reference number: I58123; MWID:95004579; PMID:7920633
 A:Accession: I78532
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 211-326 <MAT2>
 A:Cross-references: GB:S73722; NID:g765215; PIDN:AAB32160.1; PID:g765216
 A:Accession: I58123
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 211-240; 'MCTASLRMRVRSFMRHPOBNSPSPROPTS', 'AGMGHAMPQASWPGRAVMTCAALAGW', 'R
 A:Cross-references: GB:S73720; NID:g765211; PIDN:AAB32159.1; PID:g765212
 A:Genetics:
 A:Map position: 7
 A:Interons: 253/1
 C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EC
 C:Keywords: cartilage; extracellular matrix
 F:1-19/Domain: signal sequence #status predicted <SIG>
 F:144-135/Domain: immunoglobulin homology <IMM>
 F:170-247/Domain: link protein repeat homology <LNK1>
 F:268-349/Domain: link protein repeat homology <LNK2>
 F:504-581/Domain: link protein repeat homology <LNK3>
 F:602-683/Domain: link protein repeat homology <LNK4>
 F:1922-2042/Domain: C-type lectin homology <LCH>
 F:2049-2105/Domain: complement factor H repeat homology <FHD>

Query Match 20.6%; Score 143; DB 1; Length 2132;
 Best Local Similarity 32.3%; Pred. No. 2.4e-06;
 Matches 43; Conservative 12; Mismatches 54; Indels 24; Gaps 7;

Qy 3 ECPGMSSTDRYCYKPKQEMTASARFCSEQAKGHLISVETALASVFNVLANKY 62
 Db 1921 QCEGEGTKKQGHCHYFHPDEETWVDAERCREQQ--SHLSIYVPEEQEFV-----NKN 1972
 Qy 63 YLTRYIWIGLRVQ-----KGPCSSISYE---NLVDPF-----EGFMWSRDTLRERF 108
 Db 1973 -ADYWMIGLNDPTIEGDFRWSGSHLQFEKMRPNQDPNPFATGECVVMWHER-GEWN 2030
 Qy 109 KYDCEQHSFICK 121
 Db 2031 DVPCNQLPFTCK 2043

RESULT 29
 S57653
 brevician precursor - mouse
 C:Species: Mus musculus (house mouse)
 C>Date: 19-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 09-Jul-2004
 C:Accession: S57653
 R:Rauch, U.; Forberg, N.; Kulbe, G.; Arnold-Ammer, I.; Faessler, R.
 submitted to the EMBL Data Library, May 1995
 A:Description: Cloning and sequence of mouse neurocan and brevician and their different
 A:Reference number: S57653
 A:Accession: S57653
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-883 <RAU>
 A:Cross-references: UNIPROT:Q61361; EMBL:X87096; NID:g886889; PIDN:CAA60575.1; PID:g8868
 C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EC
 F:49-138/Domain: immunoglobulin homology <IMM>
 F:173-250/Domain: link protein repeat homology <LNK1>
 F:271-352/Domain: link protein repeat homology <LNK2>
 F:626-657/Domain: EGF homology <EGF>
 F:664-784/Domain: C-type lectin homology <LCH>
 F:791-847/Domain: complement factor H repeat homology <FHD>

Query Match 20.5%; Score 142.5; DB 2; Length 883;
 Best Local Similarity 30.6%; Pred. No. 1e-06;
 Matches 49; Conservative 8; Mismatches 50; Indels 53; Gaps 8;

Qy 4 CPGMSSTDRYCYKPKQEMTASARFCSEQAKGHLISVETALASVFNVLANKY 63
 Db 664 CSPGMAFPQACVCKHSTRSRMEASQC--RALGAHLTSCTPEEDFV-----NDRY 715

Qy 64 LTRYIWIIGLRVQ-----NKGPCS-SISEYLVDPPECRMSRDR 103
 Db 716 -REYQWIGLNDPTIEGDFRWSGSHLQFEKMRPNQDPNPFATGECVVMWHER-GEWN 2030
 Qy 104 LREWFVDEQHSFICK-----FTRPR 126
 Db 769 -GQMSVPCNHLSTYCKMGLVSCGPPQLPLAQIRGR 807

RESULT 30
 A53210
 phospholipase A2 receptor precursor - bovine
 C:Species: Bos primigenius taurus (cattle)
 C>Date: 19-Oct-1995 #sequence_revision 19-Oct-1995 #text_change 09-Jul-2004
 C:Accession: A53210
 R:Shizaki, J.; Hamaoka, K.; Higashino, K.; Kishino, J.; Kikuchi, N.; Ohara, O.; Arita,
 J. Biol. Chem. 269, 5897-5904, 1994
 A:Title: Molecular cloning of pancreatic group I phospholipase A-2 receptor.
 A:Reference number: A53210; MWID:94164945; PMID:7509792
 A:Accession: A53210
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-1463 <ISH>
 A:Cross-references: UNIPROT:P49259; GB:D16109; NID:g786165; PIDN:BA03683.1; PID:g786166
 C:Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II rei
 F:178-219/Domain: fibronectin type II repeat homology <2F1>
 F:378-501/Domain: C-type lectin homology <LCH>

Query Match 20.5%; Score 142.5; DB 2; Length 1463;
 Best Local Similarity 26.3%; Pred. No. 1.8e-06;
 Matches 39; Conservative 25; Mismatches 44; Indels 41; Gaps 8;

Qy 4 CPGMSSTDRYCYKPKQEMTASARFCSEQAKGHLISVETALASVFNVLANKY 58
 Db 959 CPKGMILPYKICLLKIPGSPDKMTSADPCVBE--GGTVALENEVQAKPITMPLF 1016
 Qy 59 ANKEYLTRYIWIIGLRVQ-----KGPCSSISEYLVDPF-----C 95
 Db 1017 GH-----TTNWIIGLQDDYDKMLNGRP--VSYSNW-SPEFDKNIPNHTTEYQKRIPLC 1068
 Qy 96 FMVSRDTLR--EWFKVDCEQHSFICK 121
 Db 1069 GLLSNNPNHFTKWFEDCRGFGVCE 1097

RESULT 31
 A39086
 aggrecan precursor, cartilage long splice form [validated] - human
 N:Alternate names: chondroitin sulfate proteoglycan 1; large aggregating proteoglycan; p
 N:Contains: aggrecan cartilage short splice form
 C:Species: Homo sapiens (man)
 C>Date: 10-Sep-1999 #sequence_revision 01-Dec-2000 #text_change 09-Jul-2004
 C:Accession: A39086; S50206; A43919; S46651; S68399; S68466; S6786; A34226; B43919; C43
 R:Doerge, K.J.; Sasaki, M.; Kimura, T.; Yamada, Y.
 J. Biol. Chem. 266, 894-902, 1991
 A:Title: Complete coding sequence and deduced primary structure of the human cartilage 1
 A:Reference number: A39086; MWID:91093289; PMID:1985970
 A:Accession: A39086
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-2162, 2201-2329, 'A', 2392-2415 <DOB>
 A:Cross-references: UNIPROT:P61112; GB:M55172; NID:g178258; PIDN:AAA62824.1; PID:g178259
 R:Glimoff, V.; Savontaus, M.; Vehanen, J.; Vuorio, E.
 Biochim. Biophys. Acta 1219, 613-622, 1994
 A:Title: Analysis of aggrecan and tenascin gene expression in mouse skeletal tissues by r
 A:Reference number: S50206; MWID:95035091; PMID:7524681
 A:Accession: S50206
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 350-497 <GU>
 A:Cross-references: EMBL:X80278; NID:g516295
 A>Note: this translation is not annotated in Genbank entry HSAGREC, release 113.0
 R:Sandy, J.D.; Flannery, C.R.; Neame, P.J.; Lohmander, L.S.

J. Clin. Invest. 89, 1512-1516, 1992
 A>Title: The structure of aggrecan fragments in human synovial fluid. Evidence for the 1 domain.
 A/Reference number: A43919; MUID:92235266; PMID:1569188
 A/Accession: A43919
 A/Molecule type: protein
 A/Residues: 361-370, 'X', 372-373, 393-399, 'X', 401-407, 'X', 409 <SN>
 A/Cross-references: PDB:1AB22079.1; PID:g248844; PDB:1AB22077.1; PID:g248842; PDB:1AB22078.1; PID:g248843
 A/Experimental source: synovial fluid
 A/Note: sequences modified after extraction from NCBI backbone
 R/Barry, F.P.; Neame, P.J.; Sasse, J.; Pearson, D.
 Matrix Biol. 14, 323-328, 1994
 A>Title: Length variation in the keratan sulfate domain of mammalian aggrecan.
 A/Reference number: 146998; MUID:95128522; PMID:7827755
 A/Accession: 54659
 A/Molecule type: DNA
 A/Residues: 764-765, 'A', 767-846, 'V', 848-862, 'X', 864 <BAR>
 A/Cross-references: EMBL:S74659; NID:9807127; PDB:1AAC6043.1; PID:9807128
 A/Note: the authors translated the codon GAA for residue 803 as Ala and CYT for residue R/Ilc, M.Z.; Mok, M.T.; Williamson, O.D.; Campbell, M.A.; Hughes, C.E.; Handley, C.J.
 Arch. Biochem. Biophys. 322, 22-30, 1995
 A>Title: Catabolism of aggrecan by explant cultures of human articular cartilage in the A/Reference number: 566389; MUID:96004775; PMID:7574678
 A/Accession: 566389
 A/Status: preliminary
 A/Molecule type: protein
 A/Residues: 17-23/24, 'X', 26-27, 393-401, 402-403 <ILI>
 R/Fosang, A.U.; Lasc, K.; Knaeuper, V.; Murphy, G.; Neame, P.J.
 FEBS Lett. 380, 17-20, 1996
 A>Title: Degradation of cartilage aggrecan by collagenase-3 (MMP-13).
 A/Reference number: 568646; MUID:96181659; PMID:8603731
 A/Accession: 568646
 A/Status: preliminary
 A/Molecule type: protein
 A/Residues: 'V', 404-405, 'XX', <FOS>
 R/Dudha, J.; Davidson, C.M.; Wells, T.M.; Vynios, D.H.; Hardingham, T.E.; Bayliss, M.T.
 Biochem. J. 313, 933-940, 1996
 A>Title: Age-related changes in the content of the C-terminal region of aggrecan in huma A/Reference number: 562786; MUID:96190740; PMID:8611178
 A/Accession: 562786
 A/Status: preliminary; nucleic acid sequence not shown; translation not shown
 A/Molecule type: mRNA
 A/Residues: 1778-1927, 'A', 1929-1963, 'V', 1965-2162, 2201-2415 <DUD>
 A/Cross-references: EMBL:X17406; NID:930248; PDB:1CAA5463.1; PID:930249
 R/Baldwin, C.T.; Regnato, A.M.; Prockop, D.J.
 J. Biol. Chem. 264, 15747-15750, 1989
 A>Title: A new epidermal growth factor-like domain in the human core protein for the lat A/Reference number: A34226; MUID:89380154; PMID:2789216
 A/Accession: A34226
 A/Molecule type: mRNA
 A/Residues: 1936-1963, 'V', 1965-2069, 'A', 2071-2415 <BAL>
 A/Cross-references: GB:U05062; NID:g181167; PDB:1AAA35726.1; PID:g181168
 C/Genetics:
 A/Gene: GDB:AGC1; CSDP1; CSDPCP; MSK16
 A/Cross-references: GDB:127479; OMIM:155760
 A/Map position: 15q26-15q26
 C/Keywords: aggrecan; C-type lectin homology; complement factor H repeat homology; EC C/Keywords: alternative splicing; cartilage; chondroitin sulfate proteoglycan; extracell F/1-19/Domain: signal sequence #status predicted <SIG>
 F/20-2415/Product: aggrecan cartilage long splice form #status predicted <MAT>
 F/20-2162, 2201-2415/Product: aggrecan cartilage short splice form #status predicted <MAT F/20-2162, 2201-2329, 'A', 2392-2415/Product: aggrecan short splice form #status predicted F/44-1135/Domain: immunoglobulin homology <IM>
 F/170-247/Domain: link protein repeat homology <LNK1>
 F/268-349/Domain: link protein repeat homology <LNK2>
 F/495-572/Domain: link protein repeat homology <LNK3>
 F/593-673/Domain: link protein repeat homology <LNK4>
 F/677-864/Domain: keratan sulfate attachment #status predicted <KSA>
 F/864-1510/Domain: chondroitin sulfate attachment #status predicted <CS1>
 F/1511-2162/Domain: chondroitin sulfate attachment #status predicted <CS2>
 F/2168-2198/Domain: EGF lectin homology <EGF>
 F/2205-2325/Domain: C-type lectin homology <LCH>

F/2332-2388/Domain: complement factor H repeat homology <FHD>
 F/126, 239, 333, 387, 434, 602, 657, 737, 1898/Binding site: carbohydrate (Asn) (covalent) #statu F/376/Binding site: keratan sulfate (Thr) (covalent) #status predicted
 Query Match 20.4%; Score 142; DB 1; Length 2415;
 Best Local Similarity 31.3%; Pred. No. 3.5e-06;
 Matches 42; Conservative 11; Mismatches 53; Indels 28; Gaps 7;
 QY 4 CPSCGMSSTRDYCYRPFQEMTWASAEFRCSEDAKGGHLLSVETALASFPVDNVLANKY 63
 DB 2205 CEBGMNKKYGGCHVHFPDRWVDAERCRQQ--SHLSSIVPEEQEFVNN--NAQ- 2257
 QY 64 LTRYIWTGLRVQ-----NKQPCSSISTENL--VDPPECNVSPTDLR-----EW 107
 DB 2258 --DYQWIGLMDRTIEGDFRWSGHP--MDFENRPNQPNFPAAGSDCVMTMHEKGEW 2312
 QY 108 FKVDCEQHSFICK 121
 DB 2313 NDVPCNHYLPPTCK 2326
 RESULT 32
 T46256
 Brevican - human (fragment)
 N/Alternate names: protein DKFZp761L191.1
 C/Species: Homo sapiens (man)
 C/Date: 04-Feb-2000 #sequence_revision 04-Feb-2000 #text_change 09-Jul-2004
 C/Accession: T46256
 R/Ottewill, B.; Obermaier, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
 submitted to the Protein Sequence Database, January 2000
 A/Reference number: 223031
 A/Accession: T46256
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-330 <AAA>
 A/Cross-references: UNIPROT:O9NT67; EMBL:AL137504
 A/Experimental source: adult amygdala; clone DKFZp761L191
 C/Genetics:
 A/Note: DKFZp761L191.1
 C/Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EGF
 Query Match 20.4%; Score 141.5; DB 2; Length 330;
 Best Local Similarity 28.8%; Pred. No. 4.3e-07;
 Matches 46; Conservative 10; Mismatches 51; Indels 53; Gaps 7;
 QY 4 CPSCGMSSTRDYCYRPFQEMTWASAEFRCSEDAKGGHLLSVETALASFPVDNVLANKY 63
 DB 107 CNPMDAPGACYKAFSTRSRWBEAETQC--RMVGAHLASISTPREODFINN-----R 157
 QY 64 LTRYIWTGLRVQ-----NKQPCSSISTENL--VDPPECNVSPTDLR-----EW 103
 DB 158 YREYQWIGLMDRTIEGDFLMSDGVPLLYENMNPQDPDSYFSGENCV-----VMWHDQ- 211
 QY 104 LREMFVDCQHSFICK-----FTFPR 126
 DB 212 -GQMSDVPNHYLSTYCKMGVLSGCPPEPLPLAQVFGRR 250
 RESULT 33
 S49126
 Brevican precursor - rat
 N/Alternate names: aggrecan-like protein
 C/Species: Rattus norvegicus (Norway rat)
 C/Date: 01-Feb-1995 #sequence_revision 12-May-1995 #text_change 09-Jul-2004
 C/Accession: S49126; I55457
 R/Seidenbecher, C.I.; Langnaese, K.; Wax, H.; Seidel, B.; Garner, C.C.; Gundelfinger, E.D
 submitted to the EMBL Data Library, June 1994
 A/Description: Molecular cloning of a new member of the aggrecan/versican family of prote A/Reference number: S49126
 A/Accession: S49126
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-883 <SEI>

A:Cross-reference: UNIPROT:P55068; EMBL:X79881; NID:G509396; PIDN:CA56255.1; PID:G509396
 R:Seidenbecher, I.C.; Richer, K.; Rauch, U.; Fassler, R.; Garner, C.C.; Gundelfinger, E.
 J. Biol. Chem. 270, 27206-27212, 1995
 A:Title: Brevican, a Chondroitin Sulfate Proteoglycan of Rat Brain, Occurs as Secreted
 A:Reference number: 155457; MUID:96070828; PMID:7592978
 A:Accession: 155457
 A:Status: translated from GB/EMBL/DBD
 A:Molecule type: mRNA
 A:Residues: 1-883 <RBS>
 A:Cross-reference: EMBL:X79881; NID:G509396; PIDN:CA56255.1; PID:G509397
 C:Comment: For an alternative splice form, see PIR:A53908
 C:Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EC
 C:Keywords: alternative splicing
 F:49-138/Domain: immunoglobulin homology <IMM>
 F:173-250/Domain: link protein repeat homology <LNK1>
 F:271-352/Domain: link protein repeat homology <LNK2>
 F:626-657/Domain: EGF protein repeat homology <EGF>
 F:664-784/Domain: C-type lectin homology <LCH>
 F:791-847/Domain: complement factor H repeat homology <FHD>

Query Match 20.1%; Score 140.5; DB 2; Length 883;
 Best Local Similarity 30.6%; Pred. No. 1.6e-06;
 Matches 49; Conservative 7; Mismatches 51; Indels 53; Gaps 8;

QY 4 CPFGWSTDRYCYKPKQEMTWASAEFCSQAKGHLSEVETALASFYDNLVANKY 63
 DB 664 CSPGWPFPQAGCYKHFEFTRSRMEAESEQ--RALGAHLTSCFPEEDFV-----NDRY 715
 QY 64 LTRYIYIGLRVQ-----NKGQPCS-SISTENLVDPCECVNSDTR 103
 DB 716 -REYQWIGLNDRTIEGDFLWSDGPPLLYENWNPQPSYSLGNCV-----VWVMDQ- 768
 QY 104 LREMFVDCQEQHSFICK-----FTRPR 126
 DB 769 -GGMSDVPCCNYHSLYTCMKMLVSCGPPPLPLAQIFRPR 807

RESULT 34

A38609
 lectin, galactose-specific - western diamondback rattlesnake
 C:Species: Crocatus atrox (western diamondback rattlesnake)
 C>Date: 23-Aug-1991 #sequence_revision 23-Aug-1991 #text_change 09-Jul-2004
 C:Accession: A38609
 R:Hiabayashi, J.; Kusunoki, T.; Kasai, K.
 J. Biol. Chem. 266, 2320-2326, 1991
 A:Title: Complete primary structure of a galactose-specific lectin from the venom of the
 A:Reference number: A38609; MUID:9115849; PMID:1989986
 A:Accession: A38609
 A:Status: preliminary
 A:Molecule type: protein
 A:Residues: 1-135 <HIR>
 A:Cross-reference: UNIPROT:P21963
 C:Superfamily: tetralectin; C-type lectin homology
 F:3-131/Domain: C-type lectin homology <LCH>
 F:3-14,31-131,106-123/Disulfide bonds: #status predicted

Query Match 20.1%; Score 140; DB 2; Length 135;
 Best Local Similarity 28.5%; Pred. No. 2.3e-07;
 Matches 39; Conservative 21; Mismatches 51; Indels 26; Gaps 6;

QY 4 CPFGWSTDRYCYKPKQEMTWASAEFCSQAKGHLSEVETALASFYDNLVANKY 63
 DB 3 CPDMDLPMNLCKIKFIRQLKTWEDAEFKKYPGCHLASFHYGSELET-----AEY 55
 QY 64 LTRYIYIGLRVQ-----GQPCSS-ISYE-NLVDPFE-----CFWVSRDTRL 104
 DB 56 ISDYHKGQEWVWIGLRKKKDFSEWMTDRSCTDYLTWCKQDPHYQKFCVELVSLGY 115
 QY 105 REMFVDCQEQHSFICK 121
 DB 116 RLWMDVCESKDAFLCQ 132

RESULT 35

lecnin BRA3-1 precursor - barnacle (Megabalanus rosa)
 C:Species: Megabalanus rosa
 C>Date: 24-Feb-1994 #sequence_revision 09-Sep-1994 #text_change 09-Jul-2004
 C:Accession: U01503; A26094
 R:Takamatsu, N.; Takeda, T.; Kojima, M.; Heishi, M.; Muramoto, K.; Kamiya, H.; Shiba, T.
 Gene 128, 251-255, 1993
 A:Title: Acorn barnacle Megabalanus rosa lectin (BRA-3): cDNA cloning, gene structure and
 A:Reference number: U01503; MUID:93292994; PMID:8514190
 A:Accession: U01503
 A:Molecule type: DNA; mRNA
 A:Residues: 1-162 <TA>
 A:Cross-reference: UNIPROT:Q25459; DDBJ:D13299
 R:Muramoto, K.; Kamiya, H.
 Biochim. Biophys. Acta 874, 285-295, 1986
 A:Title: The amino-acid sequence of a lectin of the acorn barnacle Megabalanus rosa.
 A:Reference number: A26094
 A:Accession: A26094
 A:Molecule type: protein
 A:Residues: 25-145, 'K', 147-162 <MUR>
 A>Note: 146-Arg was also found
 C:Comment: This galactose-binding lectin is isolated from the coelomic fluid.
 C:Comment: This protein plays important roles in defense mechanisms and in development at
 C:Genetics:
 A:Introns: 22/1; 47/2; 86/3
 C:Superfamily: tetralectin; C-type lectin homology
 C:Keywords: hemolymph; homotetramer; lectin
 F:1-24/Domain: signal sequence #status predicted <SIG>
 F:25-162/Product: lectin BRA3-1 #status experimental <MAR>
 F:26-150/Domain: C-type lectin homology <LCH>
 F:26-39,56-150,125-142/Disulfide bonds: #status experimental
 F:157/Disulfide bonds: interchain (to 160) #status experimental
 F:160/Disulfide bonds: interchain (to 157) #status experimental

Query Match 20.1%; Score 140; DB 1; Length 162;
 Best Local Similarity 24.8%; Pred. No. 2.8e-07;
 Matches 33; Conservative 27; Mismatches 51; Indels 22; Gaps 5;

QY 4 CPFG--WSSTRYCYKPKQEMTWASAEFCSQAKGHLSEVETALASFYDNLVANK 61
 DB 26 CPDNLMOEYDGHGCVASTQVQVWMDAQLACQVHGAYLATIOSLENAFISBTNNR 85
 QY 62 EYTRYIYIGLR-----YQKQPCSSISTENLVDP-----FCEWVSRDTRLREWF 108
 DB 86 -----LWIGLNDIDLEGHYVNSNGE-ATDFTYSSNNPNWENOCGVVNYDTVTGQWD 138
 QY 109 KVDCEQEQHSFICK 121
 DB 139 DDDCKNRKRFICK 151

RESULT 36

pancreatitis-associated protein PAP-3 - rat
 C:Species: Rattus norvegicus (Norway rat)
 C>Date: 23-Aug-1995 #sequence_revision 19-Oct-1995 #text_change 09-Jul-2004
 C:Accession: S54979; S43438
 R:Dusetti, N.J.; Frigerio, J.M.; Szpirer, C.; Dagorn, J.C.; Iovanna, J.L.
 Biochem. J. 307, 9-16, 1995
 A:Title: Cloning, expression and chromosomal localization of the rat pancreatitis-associ-
 A:Reference number: S54979; MUID:95234061; PMID:7717998
 A:Accession: S54979
 A:Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-174 <DUS>
 A:Cross-reference: UNIPROT:P42854; EMBL:U09193; NID:G483931; PIDN:AA79231.1; PID:G483931
 R:Frigerio, J.M.; Dusetti, N.J.; Garrido, P.; Dagorn, J.C.; Iovanna, J.L.
 Biochim. Biophys. Acta 1216, 329-331, 1993
 A:Title: The pancreatitis associated protein III (PAP III), a new member of the PAP gene
 A:Reference number: S43438; MUID:94060113; PMID:8241280
 A:Accession: S43438

A>Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-174 <FRI>
 A:Cross-references: GB:IL20869; GB:S67496; NID:9463279; PID:AAA1809.1; PID:9463280
 C:Genetics:
 A:introns: 26/1; 65/3; 111/3; 153/1
 C:Superfamily: tetranelectin; C-type lectin homology
 F:40-170/Domain: C-type lectin homology <LCH>

Query Match 20.1%; Score 140; DB 2; Length 174;
 Best Local Similarity 25.5%; Pred. No. 3e-07;
 Matches 35; Conservative 26; Mismatches 58; Indels 18; Gaps 3;

QY 2 LECPSGWSSTDRYCYKPFKQEMTWASAEFCSQAKGHLISVETALASFYDNLVYANK 61
 DB 38 ISCPKGSRAVGSYCYALFVSYSKMPDADLAC-QKRPGLVSVLSGSEASFWSSLIKSSG 96
 QY 62 EYLRITWIGLRQNGQPCSSISYF-----NLVDFECFMSRTRLR 105
 DB 97 N-SGQVWVIGLHDPDLTGQEPNRCGWEMSNADVNNYFNWETNPSSVSGSHGTLTRASGFL 155
 QY 106 EWFKVDCEQHSFICK 122
 DB 156 RMRNNCISLPLVCKF 172

RESULT 37
 B56829
 albaogregin-B alpha chain - green pit viper (fragment)
 C:Species: Trimeresurus albolabris (green pit viper)
 C>Date: 05-Jan-1996 #sequence_revision 05-Jan-1996 #text_change 09-Jul-2004
 C:Accession: B56829
 R:Yoshida, E.; Fujimura, Y.; Mura, S.; Sugimoto, M.; Fukui, H.; Narita, N.; Usami, Y.; Biochem. Biophys. Res. Commun. 191, 1386-1392, 1993
 A:Title: Albaogregin-B and botrocetin, two snake venom proteins with highly homologous A:Reference number: A56829; MUID:93221514; PMID:8466514
 A:Accession: B56829
 A>Status: preliminary
 A:Molecule type: protein
 A:Residues: 1-40 <YOS>
 A:Cross-references: UNIPROT:Q9PS19
 A:Experimental source: venom
 A:Note: sequence extracted from NCBI backbone (NCBIP:128751)
 C:Superfamily: tetranelectin; C-type lectin homology
 C:Keywords: disulfide bond; heterodimer

Query Match 20.0%; Score 139; DB 2; Length 40;
 Best Local Similarity 57.5%; Pred. No. 7.4e-08;
 Matches 23; Conservative 5; Mismatches 12; Indels 0; Gaps 0;

QY 3 ECPGWSSTDRYCYKPFKQEMTWASAEFCSQAKGHL 42
 DB 1 DCPSDWSFQYCYQIIRKLTWEDAEFRFMDYKGAHLV 40

RESULT 38
 LNR3
 lectin BRA3-2 precursor - barnacle (Megabalanus rosa)
 C:Species: Megabalanus rosa
 C>Date: 31-Dec-1988 #sequence_revision 09-Sep-1994 #text_change 09-Jul-2004
 C:Accession: JCI504; A26094
 R:Takamatsu, N.; Takeda, T.; Kojima, M.; Heishi, M.; Muramoto, K.; Kamiya, H.; Shiba, T. Gene 128, 251-255, 1993
 A:Title: Acorn barnacle Megabalanus rosa lectin (BRA-3): cDNA cloning, gene structure and A:Reference number: JCI503; MUID:93292994; PMID:8514130
 A:Accession: JCI504
 A:Molecule type: mRNA
 A:Residues: 1-162 <TA>
 A:Cross-references: UNIPROT:Q25459
 R:Muramoto, K.; Kamiya, H. Biochim. Biophys. Acta 874, 285-295, 1986
 A:Title: The amino-acid sequence of a lectin of the acorn barnacle Megabalanus rosa.
 A:Reference number: A26094

A:Accession: A26094
 A:Molecule type: protein
 A:Residues: 25-162 <MUR>
 A:Note: 146-Arg was also found
 C:Comment: This three galactose-binding lectin is isolated from the coelomic fluid.
 C:Comment: This protein plays important roles in defense mechanisms and in development at C:Superfamily: tetranelectin; C-type lectin homology
 C:Keywords: hemolymph; homotetramer; lectin
 F:1-24/Domain: signal sequence #status predicted <SIG>
 F:25-162/Product: lectin BRA3-2 #status experimental <MAT>
 F:26-150/Domain: C-type lectin homology <LCH>
 F:26-39,56-150,125-142/Disulfide bonds: #status experimental
 F:157/Disulfide bonds: interchain (to 160) #status experimental
 F:160/Disulfide bonds: interchain (to 157) #status experimental

Query Match 20.0%; Score 139; DB 1; Length 162;
 Best Local Similarity 24.8%; Pred. No. 3.5e-07;
 Matches 33; Conservative 27; Mismatches 51; Indels 22; Gaps 5;

QY 4 CPSCG-WSSTDRYCYKPFKQEMTWASAEFCSQAKGHLISVETALASFYDNLVYANK 61
 DB 26 CPGLNDQGYDGHCTWASTYGVWMDAQACQTVHPGAVLATIQSLQENAFSEYNSNR 85
 QY 62 EYLRITWIGLR-----VONKQPCSSISYENLVDP-----PECFVNSDTRLRWF 108
 DB 86 -----LWIGLNDIDLEGHVWSNGE-ATDFTYSSNNENNDCCGVVNDVTYTGWD 138
 QY 109 KYDCEQHSFICK 121
 DB 139 DDDCKNNKFLCK 151

RESULT 39
 A39808
 proteoglycan core protein, cartilage - bovine (fragments)
 N:Alternate names: aggrecan; aggregating cartilage proteoglycan
 C:Species: Bos primigenius taurus (cattle)
 C>Date: 20-Mar-1992 #sequence_revision 23-Mar-1995 #text_change 09-Jul-2004
 C:Accession: A34234; A39808; A27751; E29164; B27751; D27751; E27751; F27751; R:Antonsson, P.; Heinegard, D.; Oldberg, A. J. Biol. Chem. 264, 16170-16173, 1989
 A:Title: The keratan sulfate-enriched region of bovine cartilage proteoglycan consists of A:Reference number: A34234; MUID:89380219; PMID:2528543
 A:Accession: A34234
 A>Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 128-621 <ANT>
 A:Cross-references: UNIPROT:P13608; GB:J05028
 R:Oldberg, A.; Antonsson, P.; Heinegard, D. Biochem. J. 243, 255-259, 1987
 A:Title: The partial amino acid sequence of bovine cartilage proteoglycan, deduced from a A:Reference number: A27752; MUID:87270630; PMID:3111460
 A:Accession: A27752
 A>Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 622-1340 <OLD>
 R:Sandy, J.D.; Boynton, R.E.; Flannery, C.R. J. Biol. Chem. 266, 8198-8205, 1991
 A:Title: Analysis of the catabolism of aggrecan in cartilage explants by quantitation of A:Reference number: A39808; MUID:91217051; PMID:2022637
 A:Accession: A39808
 A>Status: preliminary
 A:Molecule type: protein
 A:Residues: 1-28;59-82;131-137, 'QSER', 142-149;196-207;226-249;1137-1143;1252-1267;1274-1; R:Perin, J.P.; Bonnet, F.; Jolles, P. FEBS Lett. 206, 73-77, 1986
 A:Title: Structural relationship between link proteins and proteoglycan monomers.
 A:Reference number: A27751; MUID:87005253; PMID:2530809
 A:Accession: A27751
 A:Molecule type: protein
 A:Residues: 29-58;74-130,174-175, 'A', 177-204;208-225 <PER>
 R:Perin, J.P.; Bonnet, F.; Jolles, J.; Jolles, P.

FEBS Lett. 176, 37-42, 1984
 A>Title: Sequence data concerning the protein core of the cartilage proteoglycan monomer
 A/Reference number: A91327; MUID:85027710; PMID:6489519
 A/Accession: E29164
 A/Molecule type: protein
 A/Residues: 1230-1249 <PE2>
 C/Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EGF repeats
 C/Keywords: glycoprotein
 F/8-28/Domain: link protein repeat homology (fragment) <LNK1>
 F/29-58/Domain: link protein repeat homology (fragment) <LNK2>
 F/80-146/Domain: link protein repeat homology (fragments) <LNK3>
 F/167-248/Domain: link protein repeat homology <LNK4>
 F/1130-1250/Domain: C-type lectin homology <LCH>
 F/1257-1313/Domain: complement factor H repeat homology <FHD>

Query Match 19.9%; Score 138; DB 2; Length 1340;
 Best Local Similarity 30.5%; Pred. No. 4.7e-06;
 Matches 40; Conservative 12; Mismatches 57; Indels 22; Gaps 6;

QY 4 CPGMSSTRYCYKPKQEMTWASAEFCSEQAKGHLISVETALBASFDVNLVANKY 63
 DB 1130 CEEGWTKFGCHCRHPPDATTWDASQCRKQ--SHLSIVTPEQEFVNN---NAQ- 1182
 QY 64 LTRYIWIQLRVON---KGQPCSSISYENL--VDFECFMSRDTRLR-----EMFKY 110
 DB 1183 --DYQWIGLNDKTIKEDGDFRMSDGHSLQEFNWRPNQDPNFATGEDCVVMIMHEKGEWMDV 1240
 QY 111 DCEQGHSPICK 121
 DB 1241 PCNYQLPFTCK 1251

RESULT 40
 S48719
 phospholipase-A(2) receptor protein - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 07-May-1995 #sequence_revision 21-Jul-1995 #text_change 09-Jul-2004
 C/Accession: S48719
 R/Higashino, K.; Ishizaki, J.; Kishino, J.; Ohara, O.; Arita, H.
 Eur. J. Biochem. 225, 375-382, 1994
 A>Title: Structural comparison of phospholipase-A(2)-binding regions in phospholipase-A(2)
 A/Reference number: S48719; MUID:95010128; PMID:7925459
 A/Accession: S48719
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-1487 <HIG>
 A/Cross-References: UNIPROT:Q62028; GB:D30779; NID:g1375042; PIDN:BA06443.1; PID:669175
 C/Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II repeat
 F/181-222/Domain: fibronectin type II repeat homology <2F1>
 F/380-503/Domain: C-type lectin homology <LCH>

Query Match 19.9%; Score 138; DB 2; Length 1487;
 Best Local Similarity 26.7%; Pred. No. 5.3e-06;
 Matches 39; Conservative 31; Mismatches 42; Indels 34; Gaps 9;

QY 4 CPGMSSTRYCYKPKQEMTWASAEFCSEQAKGHLISVETALBASFDVNLVANKY 58
 DB 957 CPGMWTFYKCKFLVTIPKDPRELKWTGKQKFC--VAKGTLVSTKSLBQAFITMNL 1014
 QY 59 ANKEVLTTRYIWIQLRVON---KGQPC--SSISYENLVN-----PFE-----CFMVS 99
 DB 1015 GQ---TTNVIWIGLQSTNEHKWNGKPIVYSNMSPDIIINIPSYNTTEPQKHPLCALMS 1070
 QY 100 RDTRLR---EMFKVDC-EQGHSPICK 121
 DB 1071 SNENFHTGKMYPDCKEGYFVCE 1096

RESULT 41
 T42630
 aggrecan - bovine
 C/Species: Bos primigenius taurus (cattle)
 C/Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jul-2004

C/Accession: T42630
 R/Hering, T.M.; Kollar, J.; Huynh, T.D.
 Submitted to the EMBL Data Library, September 1996
 A/Description: Complete coding sequence of bovine aggrecan: comparative structural analysis
 A/Reference number: Z22182

A/Accession: T42630
 A/Status: preliminary; translated from GB/EMBL/DBJ
 A/Molecule type: mRNA
 A/Residues: 1-2327 <HER>
 A/Cross-References: UNIPROT:P13608; EMBL:U76615; NID:g1730259; PID:g1730260; PIDN:AB385;
 A/Experimental source: articular chondrocytes
 C/Superfamily: aggrecan; C-type lectin homology; complement factor H repeat homology; EGF
 C/Keywords: cartilage; chondroitin sulfate proteoglycan; extracellular matrix; glycoprotein

Query Match 19.9%; Score 138; DB 2; Length 2327;
 Best Local Similarity 30.5%; Pred. No. 8.8e-06;
 Matches 40; Conservative 12; Mismatches 57; Indels 22; Gaps 6;

QY 4 CPGMSSTRYCYKPKQEMTWASAEFCSEQAKGHLISVETALBASFDVNLVANKY 63
 DB 2117 CEEGWTKFGCHCRHPPDATTWDASQCRKQ--SHLSIVTPEQEFVNN---NAQ- 2169
 QY 64 LTRYIWIQLRVON---KGQPCSSISYENL--VDFECFMSRDTRLR-----EMFKY 110
 DB 2170 --DYQWIGLNDKTIKEDGDFRMSDGHSLQEFNWRPNQDPNFATGEDCVVMIMHEKGEWMDV 2227
 QY 111 DCEQGHSPICK 121
 DB 2228 PCNYQLPFTCK 2238

RESULT 42
 S78596
 ovolectidin - chicken
 C/Species: Gallus gallus (chicken)
 C/Date: 24-Oct-1998 #sequence_revision 24-Oct-1998 #text_change 20-Sep-1999
 C/Accession: S78596
 R/Baerholdt, D.; Andersen, S.O.
 Submitted to the Protein Sequence Database, September 1998
 A/Reference number: S78596
 A/Accession: S78596
 A/Molecule type: protein
 A/Residues: 1-142 <BA>
 A/Experimental source: egg-shell
 C/Superfamily: tetralectin; C-type lectin homology
 C/Keywords: phosphoprotein
 F/5-16,33-138,113-130/Dissulfide bonds: #status experimental
 F/61,67/Binding site: phosphate (Ser) (covalent) #status experimental

Query Match 19.6%; Score 136.5; DB 2; Length 142;
 Best Local Similarity 25.0%; Pred. No. 5.6e-07;
 Matches 35; Conservative 21; Mismatches 57; Indels 27; Gaps 4;

QY 4 CPGMSSTRYCYKPKQEMTWASAEFCSEQAKGHLISVETALBASFDVNLVANKY 61
 DB 5 CCGWTFPTGGCGGCFRSLRSLMSRAESFCRMGPGSHLAIVNSAALRLALBELNLSRG 64
 QY 62 ---EYLTTRYIWIQLRVONKQGPCSSISY---ENLVDP-----ECFVWSRD 101
 DB 65 DSGSGEADRWVIGLH---RPAGSRWRSWDGTAAPASWHTAKARGRCALRDE 119
 QY 102 TRREWFVKVDCQGHSPICK 121
 DB 120 EAFTSWAPRPTERNAFVCK 139

RESULT 43
 T29536
 hypothetical protein T19E7.1 - Caenorhabditis elegans
 C/Species: Caenorhabditis elegans
 C/Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
 C/Accession: T29536
 R/Pauley, A.; Gattung, S.

A; Introns: 52/3; 103/1

Query Match 19.0%; Score 132; DB 1; Length 2109;
 Best Local Similarity 29.8%; Pred. No. 3.3e-05;
 Matches 39; Conservative 13; Mismatches 57; Indels 22; Gaps 6;

QY 4 CPSSGMSSTRYCYKPKQEMTWASARFCSSEAKGSHLSVETALASFYDNLVANKY 63
 DB 1897 CEEGMKFKQGHCHRYFAHRRAMEDARDERRA--GHLISVSPBEHKTFNSFGHNS-- 1947
 QY 64 LRRYIWIGLR-----RVON--RGQPCSSISYENL--VDFECFMSRDRRLR-----EMFYK 110
 DB 1948 ADDYQWIGLSDRAVDLDFRMSDGHSLQFENRNPQDNFFPAGEDCVVIMHEQGEWMDV 2007
 QY 111 DCEQOHSFICK 121
 DB 2008 PCNYHLFPICK 2018

RESULT 46
 S52781
 neurocan - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 19-May-1995 #sequence_revision 21-Jul-1995 #text_change 09-Jul-2004
 C/Accession: S52781
 R/Rauch, U.; Forsberg, N.; Kulbe, G.; Arnold-Ammer, I.; Faessler, R.
 submitted to the EMBL Data Library, February 1995
 A/Description: Amino acid sequence of mouse neurocan and brevican and their different ex
 A/Reference number: S52781
 A/Accession: S52781
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-1268 <RAU>
 A/Cross-references: UNIPROT:P55066; EMBL:X64727; NID:G758629; PIDN:CA59216.1; PID:G7586
 C/Superfamily: aggregan; C-type lectin homology; complement factor H repeat homology; EG
 F/176-253/Domain: link protein repeat homology <LNK1>
 F/274-355/Domain: link protein repeat homology <LNK2>
 F/964-995/Domain: BGF homology <BGF>
 F/1040-1160/Domain: C-type lectin homology <LCH>
 F/1167-1223/Domain: complement factor H repeat homology <FHD>

Query Match 18.8%; Score 131; DB 2; Length 1268;
 Best Local Similarity 28.3%; Pred. No. 2.4e-05;
 Matches 39; Conservative 15; Mismatches 48; Indels 36; Gaps 8;

QY 4 CPSSGMSSTRYCYKPKQEMTWASARFCSSEAKGSHLSVETALASFYDNLVANKY 63
 DB 1040 CDRGMKFKQGHCHRYFAHRRAMEDARDERRA--GHLISVSPBEHKTFNSFGHNS-- 1095
 QY 64 LRRYIWIGLR-----VONKQPCSSISYENL--LVDPF-----EC-FMVSRDTR 103
 DB 1096 -----WIGLNDRTVERDFQWTDNTG-----LOYENRERKQPDNFFAGEDCVVIMHAHES- 1144
 QY 104 LREWFVDCQOHSFICK 121
 DB 1145 -GRMNDVPCNYLPHYCK 1161

RESULT 47
 A26697
 echinoidin - sea urchin (Anthocidaris crassispina)
 C/Species: Anthocidaris crassispina
 C/Date: 21-May-1988 #sequence_revision 21-May-1988 #text_change 09-Jul-2004
 C/Accession: A26697
 R/Giga, Y.; Ixai, A.; Takahashi, K.
 J. Biol. Chem. 262, 6197-6203, 1987
 A/Title: The complete amino acid sequence of echinoidin, a lectin from the coelomic fluid
 A/Reference number: A26697; MID:87194838; PMID:3571253
 A/Accession: A26697
 A/Molecule type: protein
 A/Residues: 1-147 <SIG>
 A/Cross-references: UNIPROT:P06027
 C/Superfamily: tetralectin; C-type lectin homology
 F/3-141/Domain: C-type lectin homology <LCH>

F/3-14,31-141,116-132/Disulfide bonds: #status predicted

Query Match 18.7%; Score 130; DB 2; Length 147;
 Best Local Similarity 26.2%; Pred. No. 2.8e-06;
 Matches 37; Conservative 24; Mismatches 56; Indels 24; Gaps 7;

QY 4 CPSSGMSSTRYCYKPKQEMTWASARFCSSEAKGSHLSVETALASFYDNLVANKY 55
 DB 3 CEFMTSPFGSNCYRFFAVALTWAEQGFQCSFVSRCIDISIGHLISVSPBEHKTFNSFGHNS-- 62
 QY 56 VL-YANKYELTRYIWIGLRVQ-----NKQPCSSISY-----ENLVDFECFMSRDR 101
 DB 63 YFETSTKDDPTPEMMVGFNDRTTEGNFQWTDSPDNFTAWGSPNPNYSGSDCTQWNG 122
 QY 102 TLREWFVDCQOHSFICK 121
 DB 123 AGL-NWIDLPSCSTRHYLICK 142

RESULT 48
 S28764
 neurocan precursor - rat
 C/Species: Rattus norvegicus (Norway rat)
 C/Date: 22-Nov-1993 #sequence_revision 01-Sep-1995 #text_change 09-Jul-2004
 C/Accession: S28764
 R/Rauch, U.; Karchlikeyan, L.; Maurel, P.; Margolis, R.U.; Margolis, R.K.
 J. Biol. Chem. 267, 19536-19547, 1992
 A/Title: Cloning and primary structure of neurocan, a developmentally regulated, aggregat
 A/Reference number: S28764; MID:92406907; PMID:1326557
 A/Accession: S28764
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-1257 <RAU>
 A/Cross-references: UNIPROT:P55067; EMBL:M97161; NID:G205649; PIDN:AC37679.1; PID:G2056
 C/Superfamily: aggregan; C-type lectin homology; complement factor H repeat homology; EG
 C/Keywords: chondroitin sulfate proteoglycan; glycoprotein
 F/1-12/Domain: signal sequence #status predicted <SIG>
 F/23-1257/Product: neurocan #status predicted <MAT>
 F/176-253/Domain: link protein repeat homology <LNK1>
 F/274-355/Domain: link protein repeat homology <LNK2>
 F/364-366/Region: cell attachment (R-G-D) motif
 F/953-984/Domain: BGF homology <BGF>
 F/1029-1149/Domain: C-type lectin homology <LCH>
 F/1156-1212/Domain: complement factor H repeat homology <FHD>
 F/121,339,737,967,1164/Binding site: carbohydrate (Asn) (covalent) #status predicted
 F/372,410/Binding site: chondroitin sulfate (Ser) (covalent) #status predicted
 F/44/Binding site: chondroitin sulfate (Ser) (covalent) #status experimental

Query Match 18.7%; Score 130; DB 2; Length 1257;
 Best Local Similarity 28.3%; Pred. No. 3e-05;
 Matches 39; Conservative 14; Mismatches 49; Indels 36; Gaps 8;

QY 4 CPSSGMSSTRYCYKPKQEMTWASARFCSSEAKGSHLSVETALASFYDNLVANKY 63
 DB 1029 CDRGMKFKQGHCHRYFAHRRAMEDARDERRA--GHLISVSPBEHKTFNSFGHNS-- 1084
 QY 64 LRRYIWIGLR-----VONKQPCSSISYENL--LVDPF-----EC-FMVSRDTR 103
 DB 1085 -----WIGLNDRTVERDFQWTDNTG-----LOYENRERKQPDNFFAGEDCVVIMHAHES- 1133
 QY 104 LREWFVDCQOHSFICK 121
 DB 1134 -GRMNDVPCNYLPHYCK 1150

RESULT 49
 I83377
 regenerating protein III (reg III) - rat
 C/Species: Rattus norvegicus (Norway rat)
 C/Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
 C/Accession: I60296; I83377
 R/Suzuki, Y.; Yonekura, H.; Watanabe, T.; Unno, M.; Morizumi, S.; Miyashita, H.; Okamoto
 Gene 144, 315-316, 1994
 A/Title: Structure and expression of a novel rat RegIII gene.

A:Reference number: I60296; MUID:94314238; PMID:8039722
A:Accession: I60296
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-174 <RES>
A:Cross-references: UNIPROT:P35231; GB:D23676; NID:g471157; PIDN:BA04904.1; PID:g471158
A:Accession: I83377
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-174 <RE2>
A:Cross-references: GB:D26078; NID:g471159; PIDN:BA05071.1; PID:g471160
A:Genetics:
A:Gene: RegIII
A:Introns: 25/1; 64/3; 110/3; 153/1
A:Superfamily: tetranectin; C-type lectin homology
F:39-170/Domain: C-type lectin homology <LCH>

Query Match 18.5%; Score 128.5; DB 2; Length 174;
Best Local Similarity 25.4%; Pred. No. 4.8e-06;
Matches 36; Conservative 21; Mismatches 54; Indels 31; Gaps 4;

QY 4 CPFGMSSTDRYCKPKEKMTWASARFSGEAKGGHLSVETALFASFDVNLVANKY 63
DB 39 CPFGSKAYRSYCYTLVTLTKSWFQADIAC-QKRPSGHLVSLSGEASPVSS-LVTGRVN 96
QY 64 LFRYIWIIGLRVONKQGQ-----PCSSISYEINLVDPFECFMSR 100
DB 97 NNODIWIIGLHPTMGQOPNGGWMENSDVLTNIYLNMDGPSSITVNRGN-----CGSLTA 150
QY 101 DTRLREWFXYDCEQSHFICKF 122
DB 151 TSEFLKWKGDHHCDELPEFVCKF 172

RESULT 50

T42710
mannose receptor, macrophage - mouse
N:Alternate names: lambda lectin; phospholipase A2 receptor
C:Species: Mus musculus (house mouse)
C>Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jul-2004
C:Accession: T42710
R:Wu, K.; Yuan, J.; Lasky, L.A.
J. Biol. Chem. 271, 21323-21330, 1996
A:Title: Characterization of a novel member of the macrophage mannose receptor type C 1e
A:Reference number: 222235; MUID:96355501; PMID:8702911
A:Accession: T42710
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-1479 <WUK>
A:Cross-references: UNIPROT:Q64449; EMBL:U56734; NID:g1336073; PID:g1336074; PIDN:AAC527
A:Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II re
C:Keywords: membrane protein; receptor
F:186-227/Domain: fibronectin type II repeat homology <2FR>

Query Match 18.3%; Score 127.5; DB 2; Length 1479;
Best Local Similarity 29.1%; Pred. No. 6.6e-05;
Matches 44; Conservative 16; Mismatches 54; Indels 37; Gaps 8;

QY 4 CPFGMSSTD--RYCKRPFKE-----MTWASARFSGEAKGGHLSVETALFASFDVNV 56
DB 668 CPQGWVSDPKLRHCYKVFSSRLQEKKSWMIALGVCRE--LGAQLSLASYEEHFVAM 725
QY 57 LYANK-----EYLTRYIWIIGLRVONKQPCSSISY---ENLVDPFECFMSR----- 100
DB 726 L--NKIGESPEPESHQHWIIGL---NRRDPRRGHSWRMSDGLGFSYHNFPARSRHDDD 780
QY 101 -----DTRLREWFXYDCEQSHFICKFTR 124
DB 781 IRGCAVLDLASLQWVPMQCOTOLDWICKIPR 811

Search completed: May 2, 2005, 16:02:20
Job time : 22 secs

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OM protein - protein search, using sw model

Run on: May 2, 2005, 15:59:06 ; Search time 68 Seconds
(without alignments)
948,853 Million cell updates/sec

Title: US-10-749-387-1

Perfect score: 695
Sequence: 1 DDECPGSGWSTDRYCYKPK.....WFKVDCQOHSPICKTRPR 126

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 65 summaries

Database :
1: uniprot_03:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	658	94.7	127	1 CHBA_CROHO	P81508 croctalus ho
2	371	53.4	155	2 Q9DEA2	Q9de2 agkistrodon
3	364	52.4	155	2 Q8JUV6	Q8jv6 agkistrodon
4	360.5	51.9	158	2 Q719L9	Q719l9 croctalus du
5	358.5	51.6	156	2 Q71R06	Q71r6 trimeresuru
6	358.5	51.6	156	2 Q71R07	Q71r7 trimeresuru
7	357.5	51.4	133	1 RHCA_AGRKH	P81397 agkistrodon
8	357	51.4	157	1 MMHA_AGRHA	Q9Y99 agkistrodon
9	353.5	50.9	156	2 Q71R04	Q71r4 trimeresuru
10	351.5	50.6	156	2 Q71R02	Q71r2 trimeresuru
11	335	48.2	142	2 Q9PSM6	Q9ps6 boctrops ja
12	332.5	47.8	129	2 Q71Z71	Q71z1 trimeresuru
13	326.5	47.0	131	1 ABAL_TRIAB	P8111 trimeresuru
14	320.5	46.1	129	1 RHCB_AGRKH	P81398 agkistrodon
15	314.5	45.3	132	1 ABBA_TRIAB	P8115 trimeresuru
16	314.5	45.3	158	2 Q8AYAS	Q8ay5 agkistrodon
17	311	44.7	133	1 BOTA_BOTJA	P22039 boctrops ja
18	310.5	44.7	158	2 Q8AV97	Q8av7 trimeresuru
19	309.5	44.5	158	2 Q8UVC6	Q8uv6 agkistrodon
20	309.5	44.5	158	2 Q71R01	Q71r1 trimeresuru
21	306.5	44.1	134	1 ABBA_TRIAB	P8112 trimeresuru
22	304.5	43.8	154	2 Q8JUV9	Q8jv9 agkistrodon
23	304.5	43.8	154	2 Q9YGN5	Q9ygn5 agkistrodon
24	302.5	43.5	146	2 Q98UJ0	Q98uj0 trimeresuru
25	302.5	43.5	152	1 IXA_TRIPL	P23806 trimeresuru
26	300.5	43.2	158	2 Q8JGT7	Q8jgt7 trimeresuru
27	300.5	43.2	158	2 Q6TRH0	Q6trh0 trimeresuru
28	293.5	42.2	158	1 CVXA_CRODU	Q93426 croctalus du
29	292.5	42.1	152	2 Q9D539	Q9dg39 agkistrodon
30	288.5	41.5	152	2 Q8JTW0	Q8jtw0 agkistrodon
31	288.5	41.5	152	2 Q9DEF9	Q9def9 agkistrodon

32	288	41.4	136	2 Q91841	Q91841 agkistrodon
33	287.5	41.4	152	2 Q918M1	Q918m1 agkistrodon
34	275.5	39.6	152	2 Q71RR4	Q71rr4 trimeresuru
35	273.5	39.4	158	2 Q696W1	Q696w1 vipera lebe
36	268.5	38.6	121	2 Q75ZV0	Q75zv0 agkistrodon
37	265.5	38.2	131	2 Q77248	Q77248 echis carin
38	262	37.7	136	2 Q677B6	Q677b6 bitis gabon
39	256.5	36.9	133	1 ECHA_ECHCA	P81017 echis carin
40	255.5	36.8	146	2 Q8AY94	Q8ay94 agkistrodon
41	252.5	36.3	123	1 ABBA_TRIAB	P8114 trimeresuru
42	251.5	36.2	152	2 Q6X5T3	Q6x5t3 bitis ariet
43	249.5	35.9	146	2 Q918M0	Q918m0 agkistrodon
44	249.5	35.9	148	1 CVXB_CRODU	Q93427 croctalus du
45	248.5	35.8	146	2 Q8JTW1	Q8jtw1 agkistrodon
46	246.5	35.5	148	2 Q71RP8	Q71rp8 trimeresuru
47	244	35.1	157	2 Q6T7B5	Q6t7b5 bitis gabon
48	243.5	35.0	157	2 Q772Q1	Q772q1 echis mult
49	242.5	34.9	131	2 Q71ZK5	Q71zk5 bitis ariet
50	242.5	34.9	148	2 Q71RP9	Q71rp9 trimeresuru
51	237.5	34.2	131	2 Q9PSM9	Q9psm9 echis carin
52	225.5	32.4	146	2 Q91840	Q91840 agkistrodon
53	219.5	31.6	148	2 Q8AV98	Q8av98 trimeresuru
54	218.5	31.4	123	2 Q71Z72	Q71z72 vipera russ
55	218.5	31.4	148	2 Q719L8	Q719l8 croctalus du
56	217.5	31.3	146	2 Q7T045	Q7t045 vipera lebe
57	217.5	31.3	148	2 Q6X5T2	Q6x5t2 bitis ariet
58	217	31.2	149	2 Q8UVC7	Q8uv7 agkistrodon
59	215.5	31.0	124	2 Q90WL9	Q90wl9 agkistrodon
60	215.5	31.0	146	2 Q8JST6	Q8jst6 trimeresuru
61	215.5	31.0	148	2 Q6X5T0	Q6x5t0 echis ocell
62	214	30.8	149	2 Q8AY93	Q8ay93 agkistrodon
63	212.5	30.6	148	2 Q6X5S3	Q6x5s3 echis pyram
64	212.5	30.6	148	2 Q6X5S7	Q6x5s7 echis ocell
65	212.5	30.6	148	2 Q6X5S8	Q6x5s8 echis carin

ALIGNMENTS

RESULT 1	CHBA_CROHO	STANDARD;	PRT;	127 AA.
ID	CHBA_CROHO			
AC	P81508;			
DT	28-FEB-2003 (Rel. 41, Created)			
DT	28-FEB-2003 (Rel. 41, Last sequence update)			
DT	05-JUL-2004 (Rel. 44, Last annotation update)			
DE	CH-B alpha subunit.			
OS	Crotalus horridus horridus (Timber rattlesnake).			
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;			
OC	Lepidosaurs; Squamata; Scleroglossa; Serpentes; Colubroidae;			
OC	Viperidae; Crotalinae; Crotalus.			
OK	NCBI_TaxId=8747;			
RN	[1]			
RP	SEQUENCE.			
RC	TISSUE=Venom;			
RX	MEDLINE=96420502; PubMed=8823201; DOI=10.1021/b1960704e;			
RA	Andrews R.K., Kroll M.H., Ward C.M., Rose J.W., Scarborough R.M.,			
RA	Smith A.I., Lopez J.A., Berndt M.C.;			
RT	Binding of a novel 50-kilodalton alboaaggregin from Trimeresurus			
RT	albobratis and related viper venom proteins to the platelet membrane			
RT	glycoprotein Ib-IX-V complex. Effect on platelet aggregation and			
RT	glycoprotein Ib-mediated platelet activation.";			
RL	Biochemistry 35:12629-12639(1996)			
RU	- FUNCTION: Binds to platelet GPIIb/III receptor system, inhibits vWF			
CC	- binding, and stimulates agglutination.			
CC	- SUBUNIT: Heterodimer of alpha and beta subunits; disulfide-linked.			
CC	- SIMILARITY LOCARTON: Secreted.			
CC	- SIMILARITY: Contains 1 C-type lectin family domain.			
DR	HSSP: P22030, 110K.			
DR	InterPro: IPR002353; AntifreezeZell.			
DR	InterPro: IPR001304; Lectin_C.			
DR	Pfam: PF00059; Lectin_C; 1.			
DR	PRINTS: PRO0356; ANTI-FREEZEZELL.			

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DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C TYPE LECTIN 1; FALSE_NEG.
DR PROSITE; PS00615; C TYPE LECTIN 2; 1.
KM Direct protein sequencing; Lectin.
FT DOMAIN 11 121 C-type lectin.
FT DISULFID 4 15 By similarity.
FT DISULFID 32 120 By similarity.
FT DISULFID 81 81 Interchain (with C-92 in beta chain)
FT (potential).
FT DISULFID 95 112 By similarity.
SQ SEQUENCE 127 AA; 15162 MW; B5DA100D383E347 CRC64;

Query Match 94.7%; Score 658; DB 1; Length 127;
Best Local Similarity 95.2%; Pred. No. 1.1e-61;
Matches 120; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 1 DLECPGMSSTRYCYKPFKQEMTWASAEKFCSEQAKGHLISVETALASFDVNLVANK 60
DB 1 DLECPGMSSTRYCYKPFKQEMTWADARFCSEQAKGHLISVETALASFDVNLVANK 60
QY 61 KEVLTYYIWIGLRVQNGKQPCSSISYENLVDPFECFMSRDTFLRMFKVDCSQHSPIC 120
DB 61 KEVLTYYIWIGLRVQNGKQPCSSISYENLVDPFECFMSRDTFLRMFKVDCSQHSPIC 120
QY 121 KFTRRP 126
DB 121 KFTRRP 126

RESULT 2
QYDEA2 PRELIMINARY; PRT; 155 AA.
AC Q9DEA2;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Agkicetin alpha subunit precursor.
GN Name=GP1B.1;
OS Agkistrodon acutus (Hundred-pace snake) (Deinagkistrodon acutus).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Crotalinae; Deinagkistrodon.
OC NCBI_TaxID=36307;
RN [1]
RP SEQUENCE FROM N.A.
RA Chen Y.L., Hong T.M., Chang T., Tsai I.H.;
RL Submitted (OCT-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF102801; AAC42040.1; -.
DR HSSP; P23806; IJ34.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Pancreatis_ac.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR01504; PNCRATITTSAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C TYPE LECTIN 1; 1.
DR PROSITE; PS00615; C TYPE LECTIN 2; 1.
KM Signal.
FT SIGNAL 1 23 potential.
FT CHAIN 24 155 agkicetin alpha subunit.
SQ SEQUENCE 155 AA; 17798 MW; 92B40281A797AADC CRC64;

Query Match 53.4%; Score 371; DB 2; Length 155;
Best Local Similarity 53.4%; Pred. No. 3.3e-11;
Matches 71; Conservative 20; Mismatches 32; Indels 10; Gaps 3;

QY 3 ECPGMSSTRYCYKPFKQEMTWASAEKFCSEQAKGHLISVETALASFDVNLVANK 62
DB 24 DCLPGMSSTRYCYKPFKLTKTWEDARFCTEQANGCHLVSPSAGADFFVAGVLSENIK 83
QY 63 YLTYYIWIGLRVQNGKQPCSSISYENLVDPF--ECFMSRDTFLRMFKVDC 113
DB 84 -IKPYWIGLRVQNGQCSSKMSKVSYENLVFESKCFVLAKDTGFRTWENVCG 142

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QY 114 QOHSPICKTRPR 126
DB 143 LKHVFMCKYLKPR 155

RESULT 3
QYDEA2 PRELIMINARY; PRT; 155 AA.
AC Q9JIV6;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Anthrombin A A-chain.
OS Agkistrodon acutus (Hundred-pace snake) (Deinagkistrodon acutus).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Crotalinae; Deinagkistrodon.
OC NCBI_TaxID=36307;
RN [1]
RP SEQUENCE FROM N.A.
RA Yu H., Xiang K., Wang Y., Liu J.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF091762; AAM22790.1; -.
DR HSSP; P23806; IJ34.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Pancreatis_ac.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR01504; PNCRATITTSAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C TYPE LECTIN 1; 1.
DR PROSITE; PS00615; C TYPE LECTIN 2; 1.
SQ SEQUENCE 155 AA; 17715 MW; 6E55C95E97A1D7 CRC64;

Query Match 52.4%; Score 364; DB 2; Length 155;
Best Local Similarity 52.6%; Pred. No. 1.8e-30;
Matches 70; Conservative 20; Mismatches 33; Indels 10; Gaps 3;

QY 3 ECPGMSSTRYCYKPFKQEMTWASAEKFCSEQAKGHLISVETALASFDVNLVANK 62
DB 24 DCLPGMSSTRYCYKPFKLTKTWEDARFCTEQANGCHLVSPSAGADFFVAGVLSENIK 83
QY 63 YLTYYIWIGLRVQNGKQPCSSISYENLVDPF--ECFMSRDTFLRMFKVDC 113
DB 84 -IKPYWIGLRVQNGQCSSKMSKVSYENLVFESKCFVLAKDTGFRTWENVCG 142
QY 114 QOHSPICKTRPR 126
DB 143 LKHVFMCKYLKPR 155

RESULT 4
QYDEA2 PRELIMINARY; PRT; 158 AA.
AC Q719L9;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Crotocecin-1.
OS Crotales durissus terrificus (South American rattlesnake).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Crotalinae; Crotales.
OC NCBI_TaxID=8732;
RN [1]
RP SEQUENCE FROM N.A.
RA Tissue=Venom gland;
RA Raddie-Baptista G., Camargo A.C.M., Yamane T.;
RL Submitted (AUG-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF541883; AAQ11364.1; -.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.

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DR InterPro; IPRO03990; Pancreatis_ac.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR01504; PNCREATITISAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C TYPE LECTIN 1; 1.
DR PROSITE; PS50041; C TYPE LECTIN 2; 1.
SQ SEQUENCE 158 AA; 1819 MW; 9F43B3164691D1E9 CRC64;

Query Match
Best Local Similarity 47.4%; Pred. No. 4,4e-30;
Matches 64; Conservative 27; Mismatches 35; Indels 9; Gaps 2;

QY 1 DLECPGMSSTDRYCYKPKFQKEMTWASAEKFCSEQAKGHLISVETALASFDVNLVYANK 60
DB 24 DFCPCSGMSAYDQYCYRVIKQLKTWEDAEWFTKQAKGHLISVESAGEADFAVLVAEN 83
QY 61 KEVLTYIWTGLRVONKGPC-----SSISYENLVDPF--ECFWSRDTRLREMFKVD 111
DB 84 IKQNKTYIWTGLRVONKGPCSTKMSDGSVYENLVKSKCFVLKGTFRKMFNVAC 143
QY 112 CEGQHSFICKETPR 126
DB 144 CEKHLFMCKETPR 156

RESULT 5
Q71R06 PRELIMINARY; PRT; 156 AA.
ID Q71R06
AC Q71R06; PRELIMINARY; 27, Created)
DT 05-JUL-2004 (TEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TEMBLrel. 27, Last sequence update)
DE Stejagregin-B alpha chain-2.
OS Trimeresurus stejagregi (Chinese green tree viper).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidae;
OC Viperidae; Crotalinae; Trimeresurus.
OX NCBI_TaxID=39682;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Venom gland;
RA Lee W.-H., Liu H., Zhang Y.;
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF354919; AA015161.1; -
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPRO01304; Lectin_C.
DR InterPro; IPRO03990; Pancreatis_ac.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR01504; PNCREATITISAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C TYPE LECTIN 1; 1.
DR PROSITE; PS50041; C TYPE LECTIN 2; 1.
SQ SEQUENCE 156 AA; 17984 MW; C08B54F955369DFD CRC64;

Query Match
Best Local Similarity 51.6%; Score 358.5; DB 2; Length 156;
Matches 70; Conservative 18; Mismatches 35; Indels 11; Gaps 4;

QY 3 ECPGMSSTDRYCYKPKFQKEMTWASAEKFCSEQAKGHLISVETALASFDVNLVYANK 62
DB 24 DFCPCSGMSAYDQYCYRVIKQLKTWEDAEWFTKQAKGHLISVESAGEADFAVLVAEN 83
QY 63 YLTRY-IWIGLRVONKGPC-----SSISYENLVDPF--ECFWSRDTRLREMFKVD 112
DB 84 -TTKYDVIWIGLSVNVNGQCCSSSDGSVYENLVKSKCFVLKGTFRKMFNVAC 142
QY 113 EQGHSFICKETPR 126
DB 143 EQGHLFMCKETPR 156

RESULT 6
Q71R07

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ID Q71R07 PRELIMINARY; PRT; 156 AA.
AC Q71R07; PRELIMINARY; 27, Created)
DT 05-JUL-2004 (TEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TEMBLrel. 27, Last sequence update)
DE Stejagregin-B alpha chain-1.
OS Trimeresurus stejagregi (Chinese green tree viper).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidae;
OC Viperidae; Crotalinae; Trimeresurus.
OX NCBI_TaxID=39682;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Venom gland;
RA Lee W.-H., Liu H., Zhang Y.;
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF354919; AA015160.1; -
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPRO01304; Lectin_C.
DR InterPro; IPRO03990; Pancreatis_ac.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR01504; PNCREATITISAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C TYPE LECTIN 1; 1.
DR PROSITE; PS50041; C TYPE LECTIN 2; 1.
SQ SEQUENCE 156 AA; 17924 MW; 4A4F11F94167D58F CRC64;

Query Match
Best Local Similarity 52.2%; Pred. No. 7e-30;
Matches 70; Conservative 18; Mismatches 35; Indels 11; Gaps 4;

QY 3 ECPGMSSTDRYCYKPKFQKEMTWASAEKFCSEQAKGHLISVETALASFDVNLVYANK 62
DB 24 DFCPCSGMSAYDQYCYRVIKQLKTWEDAEWFTKQAKGHLISVESAGEADFAVLVAEN 83
QY 63 YLTRY-IWIGLRVONKGPC-----SSISYENLVDPF--ECFWSRDTRLREMFKVD 112
DB 84 -TTKYDVIWIGLSVNVNGQCCSSSDGSVYENLVKSKCFVLKGTFRKMFNVAC 142
QY 113 EQGHSFICKETPR 126
DB 143 EQGHLFMCKETPR 156

RESULT 7
RHCA_AGRH STANDARD; PRT; 133 AA.
ID RHCA_AGRH
AC RHCA_AGRH; STANDARD; 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DE Rhodocetin alpha subunit.
OS Agkistrodon rhodostoma (Malayan pit viper) (Calloselasma rhodostoma).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidae;
OC Viperidae; Crotalinae; Calloselasma.
OX NCBI_TaxID=8717;
RN [1]
RP SEQUENCE, FUNCTION, SUBUNIT, AND MASS SPECTROMETRY.
RC TISSUE=Venom;
RA MEDLINE=99303998; PubMed=10360956; DOI=10.1021/B1982132z;
RA Wang R., Kini R.M., Chung M.C.M.;
RT "Rhodocetin, a novel platelet aggregation inhibitor from the venom of Calloselasma rhodostoma (Malayan pit viper): synergistic and noncovalent interaction between its subunits.";
RL Biochemistry 38:7584-7593(1999).
CC -1- FUNCTION: A potent inhibitor of collagen-induced platelet aggregation. Individually, neither subunit inhibits platelet aggregation. Both subunits are essential.
CC -1- SUBUNIT: Heterodimer of one alpha and one beta subunit held together by noncovalent interactions rather than by intersubunit disulfide bridges.
CC -1- SUBCELLULAR LOCATION: Secreted.

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CC -1- MASS SPECTROMETRY: MW=15955.90; MW_ERR=1.44; METHOD=Electrospray;
CC RANGE=1-133; NOTE=Ref.1.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC HSSP: P22030; 11UK.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_C; 1.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PS00615; C TYPE LECTIN 1; FALSE_NEG.
DR PROSITE: PS00041; C TYPE LECTIN 2; 1.
KW Direct protein sequencing; Lectin.
FT DOMAIN 1 129 C-type lectin.
FT DISULFID 2 13 By similarity.
FT DISULFID 30 127 By similarity.
FT DISULFID 102 119 By similarity.
SQ SEQUENCE 133 AA; 15962 MW; 386BAC519DFC674D CRC64;

Query Match 51.4%; Score 357.5; DB 1; Length 133;
Best Local Similarity 49.6%; Pred. No. 7.5e-30;
Matches 66; Conservative 22; Mismatches 36; Indels 9; Gaps 2;

QY 3 ECPSGMSSTDRCYKPFQKQEMTWSAERFCSEQAKGHLISVETALEASFDVNLVYANKE 62
DB 1 DCPDGMSSIRKSYCYRFRFKKTEAEARCTEQRKAHLVSNLEAVFDVMWENNFE 60
QY 63 YLTRYIWIIGLRVONKQPC-----SSISYENVLPD--ECFMWSRDTRLREMFVDC 113
DB 61 NKIYRWIGIKTIENKQSRNLSWSDSSISYENVLPYPMKCFPLMDHQGLPKMTADCE 120
QY 114 QCHSPICKETRRP 126
DB 121 EKNVFWCKFLPR 133

RESULT 8
MMHA_AGKHA STANDARD; PRT; 157 AA.
ID MMHA_AGKHA
AC Q9YGG9;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Mamushigin alpha chain precursor.
OS Agkistrodon halys blomhoffi (Mamushi) (Gloydius blomhoffi).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Lepidodermata; Squamata; Scleroglossa; Serpentes; Colubroidae;
OC Viperidae; Crotalinae; Gloydius.
OX NCBI_TaxID=242054;
RN [1]
RP SEQUENCE FROM N.A.; SEQUENCE OF 22-58, SUBUNIT, AND MASS SPECTROMETRY.
RC TISSUE=Venom;
RA MEDLINE=98319530; PubMed=9657448;
RA Sakurai Y., Fujimura Y., Kokubo T., Imamura K., Kawasaki T., Handa M.,
RA Suzuki M., Matsui T., Titi K., Yoshioka A.;
RT "The CDNA cloning and molecular characterization of a snake venom
RT platelet glycoprotein Ib-binding protein, mamushigin, from Agkistrodon
RT halys blomhoffi venom."
RT Thromb. Haemost. 79:1199-1207(1998).
RL FUNCTION: Binds to platelet glycoprotein Ib and enhances platelet
CC aggregation at low-shear stress. At high-shear stress, aggregation
CC is inhibited.
CC -1- SUBUNIT: Heterodimer of alpha and beta chains; disulfide-linked.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- MASS SPECTROMETRY: MW=16825; MW_ERR=2.7; METHOD=Electrospray;
CC RANGE=22-157; NOTE=Ref.1.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
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DR EMBL: AB019615; BA034424.1; -.
DR HSSP: P23806; 1U34.
DR GO: GO:0005576; C:extracellular; IC.
DR GO: GO:0007596; P:blood coagulation; IDA.
DR InterPro: IPR003990; Panceratis_ac.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_C; 1.
DR PRINTS: PR01504; PNCREATITSP.
DR PROSITE: PS00615; C TYPE LECTIN 1; 1.
DR PROSITE: PS00041; C TYPE LECTIN 2; 1.
KW Blood coagulation; Direct protein sequencing; Lectin; Signal.
FT SIGNAL 1 21
FT CHAIN 22 157 Mamushigin alpha chain.
FT DOMAIN 34 152 C-type lectin.
FT DISULFID 27 38 By similarity.
FT DISULFID 55 151 By similarity.
FT DISULFID 103 103 Interchain (with C-98 in beta chain) (By
FT similarity).
SQ SEQUENCE 157 AA; 18333 MW; 47DAA17891CE1865 CRC64;

Query Match 51.4%; Score 357; DB 1; Length 157;
Best Local Similarity 50.4%; Pred. No. 1e-29;
Matches 68; Conservative 24; Mismatches 33; Indels 10; Gaps 3;

QY 1 DLECPGMSSTDRCYKPFQKQEMTWSAERFCSEQAKGHLISVETALEASFDVNLVYAN 60
DB 24 DSDCPDGMSSNCRFCYKLFQCKMKADARCTEQRKAHLVSNLEAVFDVMWENNFE 83
QY 61 KEYLTRYIWIIGLRVONKQPC-----SSISYENVLPD--ECFMWSRDTRLREMFVDC 111
DB 84 IK-KTDYVWIGLTVQNEEQCKSRWSDRSSYENVLPVPMKCFPLMDHQGLPKMTADCE 142
QY 112 CEQHSFICKETRRP 126
DB 143 CGQKTAFWCKFLPR 157

RESULT 9
Q71R04 PRELIMINARY; PRT; 156 AA.
ID Q71R04
AC Q71R04;
DT 05-JUL-2004 (TREMBLrel. 27, Created)
DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update)
DE Stejagregin-B alpha chain-3.
OS Timereurus stejegeri (Chinese green tree viper).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Lepidodermata; Squamata; Scleroglossa; Serpentes; Colubroidae;
OC Viperidae; Crotalinae; Timereurus.
OX NCBI_TaxID=39682;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Venom gland;
RA Lee W.-H., Liu H., Zhang Y.;
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
RA EMBL: AF354921; AA015163.1; -.
RA EMBL: AF354922; AA015164.1; -.
RA EMBL: AF354920; AA015162.1; -.
DR GO: GO:0005529; F:sugar binding; IEA.
DR InterPro: IPR001304; Lectin_C.
DR InterPro: IPR003990; Panceratis_ac.
DR Pfam: PF00059; Lectin_C; 1.
DR PRINTS: PR01504; PNCREATITSP.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PS00615; C TYPE LECTIN 1; 1.
DR PROSITE: PS00041; C TYPE LECTIN 2; 1.
SQ SEQUENCE 156 AA; 17972 MW; C09FB50944D76FDF CRC64;

Query Match 50.9%; Score 353.5; DB 2; Length 156;
Best Local Similarity 51.5%; Pred. No. 2.4e-29;
Matches 69; Conservative 18; Mismatches 36; Indels 11; Gaps 4;

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QY		3	ECPGMSSTDRYCYKPFQEWMTWASAEFCSGOAKGHLLSVETLLEASFVDNVLYANKE	62
Dd		24	DCPBDMSFKQCYCQIITKQLTWEBAEFCDMQYGALHVSIESREAVFVAOQLSENVK	83
QY		63	YLTRY-TWIGLRVONKGQC-----SSISYEVLVDF--ECFVNSDTRLREWFKYDC	112
Dd		84	-TTKYDWTLGSVVNKGQQCSSSDSGSSVSIEYENLVKLSKKCFVLKKGTFFRKFWNAVC	142
QY		113	EQCHSFICKFTPRR	126
Dd		143	EQKHLPWCCKFLPR	156
RESULT 10				
ID	Q7IRQ2		PRELIMINARY;	PRT; 156 AA.
AC	Q7IRQ2;			
DT	05-JUL-2004 (TREMBLrel. 27, Created)			
DT	05-JUL-2004 (TREMBLrel. 27, Last sequence update)			
DE	05-JUL-2004 (TREMBLrel. 27, Last annotation update)			
DE	Strejagreguin-B alpha chain-4.			
OS	Trimeresurus stejnegeri (Chinese green tree viper).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrate; Euteleostomi;			
OC	Lepidodontaia; Squamata; Scleroglossa; Serpentes; Colubroidea;			
OC	Viperidae; Crotalinae; Trimeresurus.			
OX	NCBI_TaxId=39682;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
KC	TISSUE=Venom gland.			
RC	Lee W.-H., Liu H., Zhang Y.;			
RL	Submitted (MAR-2001) to the EMBL/Genbank/DDBJ databases.			
DR	EMBL: AF354923; AAO15165.1; -.			
DR	GO: GO:0005529; F:sugar binding; IEA.			
DR	InterPro: IPR001304; Lectin_C.			
DR	InterPro: IPR003990; Pancreatis_ac.			
DR	Pfam: PF00059; Lectin_C; 1.			
DR	PRINTS: PRO1504; PNCREATITAP.			
DR	SMART: SMO0034; CLCTC; 1.			
DR	PROSITE: PS00615; C_TYPE_LECTIN_2; 1.			
DR	PROSITE: PS50041; C_TYPE_LECTIN_2; 1.			
SQ	SEQUENCE 156 AA; 17824 MW; 4AAFD0894167D58F CRC64;			
Query Match 50.6%; Score 351.5; DB 2; Length 156;				
Best Local Similarity 51.5%; Pred. No. 3.9e-29;				
Matches 69; Conservative 18; Mismatches 36; Indels 11; Gaps 4;				
QY		3	ECPGMSSTDRYCYKPFQEWMTWASAEFCSGOAKGHLLSVETLLEASFVDNVLYANKE	62
Dd		24	DCPBDMSFKQCYCQIITKQLTWEBAEFCDMQYGALHVSIESREAVFVAOQLSENVK	83
QY		63	YLTRY-TWIGLRVONKGQC-----SSISYEVLVDF--ECFVNSDTRLREWFKYDC	112
Dd		84	-TTKYDWTLGSVVNKGQQCSSSDSGSSVSIEYENLVKLSKKCFVLKKGTFFRKFWNAVC	142
QY		113	EQCHSFICKFTPRR	126
Dd		143	EQKHLPWCCKFLPR	156
RESULT 11				
ID	Q9PSM6		PRELIMINARY;	PRT; 142 AA.
AC	Q9PSM6;			
DT	01-MAY-2000 (TREMBLrel. 13, Created)			
DT	01-MAY-2000 (TREMBLrel. 13, Last sequence update)			
DT	01-OCT-2003 (TREMBLrel. 25, Last annotation update)			
DE	Platelet glycoprotein IB-binding protein alpha subunit, GPIIb-IIIa			
DE	subunit.			
OS	Bothrops jararaca (Jararaca).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrate; Euteleostomi;			
OC	Lepidodontaia; Squamata; Scleroglossa; Serpentes; Colubroidea;			
OC	Viperidae; Crotalinae; Bothrops.			

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0X NCBI_TaxID=8724;
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QY 63 YLTRYIWMGLRVQNGKQPC-----SSISYENLVDPFE--CFMWSRDRLREMFVKVDE 113
 DB 61 NTKSYWIMGLRVQNGKQPCSSSEWSDSSSYENWIEASBKTCLGKEKTFGRKWNVYCG 120
 QY 114 QOHSFICK 121
 DB 121 QONPFVCE 128

RESULT 13
 ABL TRIAB STANDARD; PRT; 131 AA.

AC P8111;
 DT 15-JUL-1998 (rel. 36, Created)
 DT 15-JUL-1998 (rel. 36, Last sequence update)
 DT 05-JUL-2004 (rel. 44, Last annotation update)
 DE Alboaggregin A subunit 1.
 OS Trimeresurus albolabris (White-lipped pit viper).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
 OC Viperidae; Crotalinae; Trimeresurus.
 NCBI_Taxid=8765;

CC -1- SUBUNIT: Heterotetramer of the subunits 1, 2, 3 and 4, disulfide-linked.
 CC -1- SUBUNIT: Contains 1 C-type lectin family domain.
 CC HSSP; P23806; J134.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR SMART; SM00034; CLECT_1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE; PS00611; C_TYPE_LLECTIN_2; 1.
 KW Direct protein sequencing; Lectin.
 FT DOMAIN 1 131 C-type lectin.
 FT DISULFID 2 13 By similarity.
 FT DISULFID 30 127 By similarity.
 FT DISULFID 102 119 By similarity.
 SQ SEQUENCE 131 AA; 15427 MW; B3869F5BF91F6624 CRC64;

Query Match 47.0%; Score 326.5; DB 1; Length 131;
 Best Local Similarity 46.6%; Pred. No. 1.4e-26;
 Matches 61; Conservative 20; Mismatches 41; Indels 9; Gaps 2;

QY 3 ECPGSGMSSTRICYKPKQEMTWASARFCSEQAKGHLISVETALASFDVNLVYANKE 62
 DB 1 DCPSPDSSSYDOYCYRVFKRIQTWEDAEFCSEQANGHIVSIESAEAFVQOLVSENIR 60
 QY 63 YLTRYIWMGLRVQNGKQPC-----SSISYENLVDPFE--CFMWSRDRLREMFVKVDE 113
 DB 61 SEKHVWIGLWVGKQKQCCSSSEWSDSSVHYDVLQENKTRCKGLEKRAEFTWNVYCG 120
 QY 114 QOHSFICK 124
 DB 121 HEYFPVCKFXR 131

RESULT 14
 RHCB AGKRH STANDARD; PRT; 129 AA.
 ID P81398;
 DT 15-JUL-1998 (rel. 36, Created)
 DT 15-JUL-1998 (rel. 36, Last sequence update)

DT 05-JUL-2004 (rel. 44, Last annotation update)
 DE Rhodocetin beta subunit.
 OS Agkistrodon rhodostoma (Malayan pit viper) (Calloselasma rhodostoma).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
 OC Viperidae; Crotalinae; Calloselasma.
 NCBI_Taxid=8717;

CC -1- SUBUNIT: FUNCTION, SUBUNIT, AND MASS SPECTROMETRY.

CC TISSUE=Venom;
 CC MEDLINE=99303998; PubMed=10360956; DOI=10.1021/b1992132z;
 RA Wang R., Kini R.M., Chung M.C.M.,
 RT "Rhodocetin, a novel platelet aggregation inhibitor from the venom of Calloselasma rhodostoma (Malayan pit viper): synergistic and noncovalent interaction between its subunits.";
 RT Biochemistry 38:7584-7593(1999).
 CC -1- FUNCTION: A potent inhibitor of collagen-induced platelet aggregation. Individually, neither subunit inhibits platelet aggregation. Both subunits are essential.
 CC -1- SUBUNIT: Heterodimer of one alpha and one beta subunit held together by noncovalent interactions rather than by intersubunit disulfide bridges.

CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- MASS SPECTROMETRY: MW=15184.53; MW_ERR=2.74; METHOD=Electrospray;
 CC RANGE=1-129; NOTE=Ref.1.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 DR HSSP; P22030; I1UK.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR SMART; SM00034; CLECT_1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; FALSE_NEG.
 DR PROSITE; PS00611; C_TYPE_LLECTIN_2; 1.
 KW Direct protein sequencing; Lectin.
 FT DOMAIN 3 125 C-type lectin.
 FT DISULFID 4 15 By similarity.
 FT DISULFID 98 115 By similarity.
 SQ SEQUENCE 129 AA; 15190 MW; EF8B318FAAC807AE CRC64;

Query Match 46.1%; Score 320.5; DB 1; Length 129;
 Best Local Similarity 44.5%; Pred. No. 6e-26;
 Matches 57; Conservative 29; Mismatches 39; Indels 3; Gaps 2;

QY 1 DLECPGSGMSSTRICYKPKQEMTWASARFCSEQAKGHLISVETALASFDVNLVYAN 60
 DB 1 DRCPTTWSASLTYCYKPKQEMTWASARFCSEQAKGHLISVETALASFDVNLVYAN 60
 QY 61 KEYLRYIWMGLRVQNGKQPCSSSYENLVDPFE--ECFMWSRDRLREMFVKVDEQOHS 117
 DB 61 FPKQRYRPAWGLTERNLKWTNGASVYENLVYPRKCFVQPMWGSKMYRADCEKNA 120
 QY 118 FICKETRP 125
 DB 121 FLCKETRP 128

RESULT 15
 ABL TRIAB STANDARD; PRT; 132 AA.
 ID P8115;
 DT 15-JUL-1998 (rel. 36, Created)
 DT 15-JUL-1998 (rel. 36, Last sequence update)
 DT 05-JUL-2004 (rel. 44, Last annotation update)
 DE Alboaggregin B alpha subunit.
 OS Trimeresurus albolabris (White-lipped pit viper).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
 OC Viperidae; Crotalinae; Trimeresurus.
 NCBI_Taxid=8765;
 CC -1- SUBUNIT: FUNCTION, SUBUNIT, AND MASS SPECTROMETRY.
 CC TISSUE=Venom;
 CC MEDLINE=98189535; PubMed=9531050; DOI=10.1021/b1992132z;
 RA Kowalska M.A., Tan L., Holt J.C., Peng M., Karczewski J.,

RA Calvete J.J., Niewiarowski S.;
 RT "Alboaggregins A and B. Structure and interaction with human platelets";
 RL Thromb. Haemost. 79:609-613(1998).
 CC -1- FUNCTION: Binds to platelet GPIIb/IX receptor system and stimulates aggregation.
 CC -1- SUBUNIT: Heterodimer of alpha and beta subunits; disulfide-linked.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 DR HSSP; P23806; 1J34.
 DR InterPro; IPR001304; Lectin_C.
 DR Pfam; PF00059; Lectin_C; 1.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 KW Direct protein sequencing; Lectin.
 FT DOMAIN 1 132
 FT DISULFID 2 13
 FT DISULFID 30 127
 FT DISULFID 79 79
 FT By similarity.
 FT Interchain (with C-75 in beta chain) (By similarity).
 FT DISULFID 102 119
 FT By similarity.
 SQ SEQUENCE 132 AA; 15419 MW; 6FA864820383F16F CRC64;

Query Match 45.3%; Score 314.5; DB 1; Length 132;
 Best Local Similarity 46.5%; Pred. No. 2.7e-25;
 Matches 60; Conservative 20; Mismatches 40; Indels 9; Gaps 2;

QY 3 ECPSGMSSTDRYCYKPFKQEMTWASARFCSQAKGHLISVETALASVFNVLVYANKE 62
 DB 1 DCPSDMSFQYCYQVIVKEIKTWEDAEKFCSEQANDGHLVISEYEAIVFVALLSENYX 60
 QY 63 YLTRYIWIIGLRVQNKGPC-----SSISYENLVDP--ECFVNSDTRLREMFVYDCE 113
 DB 61 XXKRYHWIGLSVQNKQCCSSSEWSDGSSVYENLVIXXXXXKCVLKKSESEFRITWSNYCH 120
 QY 114 QQHSFICKF 122
 DB 121 QKHIFWCKF 129

RESULT 16
 Q8AYAS PRELIMINARY; PRT; 158 AA.
 AC 08AYAS;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
 DE Agglucetin-alpha 2 subunit precursor.
 OS Agkistrodon acutus (Hundred-pace snake) (Deinagkistrodon acutus).
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Lepidosaurs; Squamata; Scleroglossa; Serpentes; Colubroidea; Viperidae; Crotalinae; Deinagkistrodon.
 OC NCBI_TaxID=36307;
 RX MEDLINE=21542539; PubMed=11686327;
 RA Wang W.-J., Huang T.-F.;
 RT "A novel tetrameric venom protein, agglucetin from Agkistrodon acutus, acts as a glycoprotein IB agonist";
 RL Thromb. Haemost. 86:1077-1086(2001).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22839357; PubMed=12958616;
 RA Wang W.-J., Ling Q.-D., Liu M.-Y., Huang T.-F.;
 RT "A tetrameric glycoprotein Ib-binding protein, agglucetin, from Formosan pit viper: structure and interaction with human platelets";
 RL Thromb. Haemost. 90:465-475(2003).
 DR EMBL; AF540646; AAN23125.1; -.
 DR HSSP; P23806; 1J34.
 DR GO; GO:0005529; F:sugar binding; IBA.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR003990; Pancreatis_ac.

DR Pfam; PF00059; Lectin_C; 1.
 DR PRINTS; PRO1504; PNCERATTSAP.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
 KW Signal.
 FT SIGNAL 1 23
 FT CHAIN 24 158
 FT agglucetin-alpha 2 subunit.
 SQ SEQUENCE 158 AA; 17977 MW; 9D0A9C936ABEA5E4 CRC64;

Query Match 45.3%; Score 314.5; DB 2; Length 158;
 Best Local Similarity 43.5%; Pred. No. 3.2e-25;
 Matches 57; Conservative 25; Mismatches 40; Indels 9; Gaps 2;

QY 1 DIECPGMSSTDRYCYKPFKQEMTWASARFCSQAKGHLISVETALASVFNVLVYAN 60
 DB 24 DENCPRGMSAYQYCYQVIVKEIKRWMDARFCTEQADGHLVISEKGRDPVQAQVSN 83
 QY 61 KEVLRYYIWIIGLRVQNKGPC-----SSISYENLVDP--ECFVNSDTRLREMFVYD 111
 DB 84 IESVEDHWVTGLRVQNKQCCSTEWSDGSSVYENLVIXXXXXKCVLKKSESEFRITWSNYCH 143
 QY 112 QQHSFICKF 122
 DB 144 CQLNPFWCKF 154

RESULT 17
 BOT1 BOTJA STANDARD; PRT; 133 AA.
 ID BOT1 BOTJA
 AC P22029;
 DT 01-AUG-1991 (Rel. 19, Created)
 DT 01-JUL-1993 (Rel. 26, Last sequence update)
 DT 25-OCT-2004 (Rel. 45, Last annotation update)
 DE Botrocetin, alpha chain (platelet coagglutinin).
 OS Bothrops jararaca (Jararaca).
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Lepidosaurs; Squamata; Scleroglossa; Serpentes; Colubroidea; Viperidae; Crotalinae; Bothrops.
 OC NCBI_TaxID=8724;
 RX MEDLINE=93157385; PubMed=8430107;
 RA Usami Y., Fujimura Y., Suzuki M., Ozeki Y., Nishio K., Fukui H., Titani K.;
 RT "Primary structure of two-chain botrocetin, a von Willebrand factor modulator purified from the venom of Bothrops jararaca";
 RL Proc. Natl. Acad. Sci. U.S.A. 90:928-932(1993).
 RN [2]
 RP SEQUENCE OF 1-40.
 RC TISSUE=Venom;
 RX MEDLINE=91129280; PubMed=1993206;
 RA Fujimura Y., Titani K., Usami Y., Suzuki M., Oyama R., Matsui T., Fukui H., Sugimoto M., Ruggeri Z.M.;
 RT "Isolation and chemical characterization of two structurally and functionally distinct forms of botrocetin, the platelet coagglutinin isolated from the venom of Bothrops jararaca";
 RL Biochemistry 30:1957-1964(1991).
 RN [3]
 RP X-RAY CRYSTALLOGRAPHY (2.6 ANGSTROMS).
 RX MEDLINE=22118144; PubMed=12121649; DOI=10.1016/S0969-2126(02)00787-6;
 RA Fukuda K., Doggett T.A., Bankston L.A., Cruz M.A., Diacovo T.G., Liddington R.C.;
 RT "Structural basis of von Willebrand factor activation by the snake toxin botrocetin";
 RL Structure 10:943-950(2002).
 CC -1- FUNCTION: Two-chain botrocetin forms an activated complex with vWF, and the complex then binds to platelet GPIb, resulting in platelet aggregation.
 CC -1- FUNCTION: There are two distinct forms of the von Willebrand factor-dependent platelet coagglutinin. The dimeric form is 34-times more active than the one-chain botrocetin in promoting vWF

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CC      binding to platelets.
CC      -1- SUBUNIT: Disulfide-linked dimer of an alpha and a beta chain.
CC      Botrocelin and wvf form a soluble complex.
CC      -1- SUBCELLULAR LOCATION: Secreted.
CC      -1- SIMILARITY: Contains 1 C-type lectin family domain.
DR      PIR: A47267; A47267.
DR      PDB: 1EVU; X-ray; A/C=1-133.
DR      PDB: 1LJK; X-ray; B=1-133.
DR      InterPro: IPR002353; AntiFreezeII.
DR      InterPro: IPR01304; Lectin_C.
DR      Pfam: PF00059; Lectin_C.
DR      PRINTS: PR00356; ANTIFREEZEII.
DR      SMART: SM00034; CLECT. 1.
DR      PROSITE: PS00615; C-TYPE_LECTIN_1; 1.
DR      PROSITE: PS50041; C-TYPE_LECTIN_2; 1.
KW      3D-structure; Direct protein sequencing; Lectin.
FT      DISULFID 30 128
FT      DISULFID 80 80
FT      DISULFID 103 120
FT      TURND 4 5
FT      STRAND 7 9
FT      TURND 10 11
FT      STRAND 12 21
FT      HELIX 22 33
FT      TURND 35 36
FT      STRAND 38 39
FT      TURND 44 45
FT      TURND 47 47
FT      HELIX 48 57
FT      TURND 58 59
FT      TURND 62 63
FT      STRAND 66 73
FT      STRAND 83 83
FT      TURND 85 86
FT      STRAND 89 89
FT      STRAND 95 95
FT      HELIX 97 99
FT      STRAND 103 107
FT      TURND 108 111
FT      STRAND 115 118
FT      TURND 120 121
FT      STRAND 124 130
SQ      SEQUENCE 133 AA; 15215 MW; E4CF4502946ACT74B CRC64;

Query Match      44.7%; Score 311; DB 1; Length 133;
Best Local Similarity 45.9%; Pred. No. 6.3e-25;
Matches 61; Conservative 24; Mismatches 38; Indels 10; Gaps 3;

QY      3 ECPGSGMSSTDYCYKPFKQEMTWASAEFCSEQAKGHLISVET-ALASFDVNLVYANK 61
DB      1 DCPGSGMSYEGNCKYKPFQOKMNADEAFCESEQAKGHLVSIKYSKEDPFVGDVLTAKNI 60
QY      62 EYLTIRYIWIGLRVONKGPC-----SSISYENLVDPF--ECFVWSRDTLRLEWFKVDC 112
DB      61 QSSDLYAMIGLRVENEKQCSSEWSDGSSVYENLVERTYKCFALKEKDLGFLVNLNLC 120

QY      113 EQGHSFICKTRP 125
DB      121 AQKPFVCKSP 133

RESULT 18
Q8AV97      PRELIMINARY; PRT; 158 AA.
AC      08AV97;
DT      01-MAR-2003 (TrEMBLrel. 23, Created)
DT      01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT      01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE      Flavocetin-A alpha chain.
OS      Trimeresurus flavoviridis (Habu) (Probochops flavoviridis).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;

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OC      Viperidae; Crotalinae; Trimeresurus.
OX      NCBI_TaxID=88087;
RN      [1]
RP      SEQUENCE FROM N.A.
RC      TISSUE=Venom glands;
RX      MEDLINE=20402624; PubMed=10942790; DOI=10.1016/S0049-3848(00)00234-6;
RA      Shin Y., Okuyama I., Hasegawa J., Morita T.;
RT      "Molecular cloning of glycoprotein Ib-binding protein, Flavocetin-A,
RT      which inhibits platelet aggregation."
RL      Thromb. Res. 99:239-247(2000).
RN      [2]
RP      SEQUENCE FROM N.A.
RC      TISSUE=Venom glands;
RA      Shin Y., Okuyama I., Hasegawa J., Morita T.;
RL      Submitted (SEP-2002) to the EMBL/Genbank/DBD databases.
DR      EMBL; AY149341; AAN72438.1; -.
DR      PDB; 1CJA; X-ray; A=24-157.
DR      GO; GO:0005529; F:sugar binding; IEA.
DR      InterPro; IPR001304; Lectin_C.
DR      InterPro; IPR003990; Pancrreatis_ac.
DR      Pfam; PF00059; Lectin_C.1.
DR      PRINTS; PR01504; PNCREATITISAP.
DR      SMART; SM00034; CLECT. 1.
DR      PROSITE; PS00615; C-TYPE_LECTIN_1; 1.
DR      PROSITE; PS50041; C-TYPE_LECTIN_2; 1.
SQ      SEQUENCE 158 AA; 18073 MW; 8C138650665CA454 CRC64;

Query Match      44.7%; Score 310.5; DB 2; Length 158;
Best Local Similarity 42.4%; Pred. No. 8.6e-25;
Matches 56; Conservative 24; Mismatches 43; Indels 9; Gaps 2;

QY      1 DLECPGSGMSSTDYCYKPFKQEMTWASAEFCSEQAKGHLISVETALASFDVNLVYANK 60
DB      24 DPCDIPGWSAYDRYQAFSKRKNWEDAFCEGEGKSHLVSISSGSGDVAQLVAKR 83
QY      61 KEYLTIRYIWIGLRVONKGPC-----SSISYENLVDPF--ECFVWSRDTLRLEWFKVDC 111
DB      84 IKTSFYVWIGLRVONKQCRSEWSDGSSVYENLVKQFSKCYALKKGTLEKTVENY 143

QY      112 CEQHSFICKFT 123
DB      144 CGTENPFVCKYT 155

RESULT 19
Q8UVVC6      PRELIMINARY; PRT; 158 AA.
AC      08UVVC6;
DT      01-MAR-2002 (TrEMBLrel. 20, Created)
DT      01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
DT      01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE      Antithrombin 1 A chain.
OS      Agkistrodon acutus (Hundred-pace snake) (Deinagkistrodon acutus).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Lepidosauria; Squamata; Chordata; Scleroglossa; Serpentes; Colubroidea;
OC      Viperidae; Crotalinae; Deinagkistrodon.
OX      NCBI_TaxID=36307;
RN      [1]
RP      SEQUENCE FROM N.A.
RA      Yu H., Xiang K., Liu J.;
RL      Submitted (DEC-2001) to the EMBL/Genbank/DBD databases.
DR      EMBL; AF463522; AAL66391.1; -.
DR      HSSP; P23806; 1J34.
DR      GO; GO:0005529; F:sugar binding; IEA.
DR      Pfam; PF00059; Lectin_C.1.
DR      PRINTS; PR01504; PNCREATITISAP.
DR      SMART; SM00034; CLECT. 1.
DR      PROSITE; PS00615; C-TYPE_LECTIN_1; 1.
DR      PROSITE; PS50041; C-TYPE_LECTIN_2; 1.
SQ      SEQUENCE 158 AA; 17950 MW; A73A9C895997BFD7 CRC64;

Query Match      44.5%; Score 309.5; DB 2; Length 158;
Best Local Similarity 42.7%; Pred. No. 1.1e-24;

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Matches 56; Conservative 26; Mismatches 40; Indels 9; Gaps 2;

QY 1 DLECPGMSSTDYCYKPFQEMTWASAEFCSGEOAKGHLVETALASFYDNLVLYAN 60
DB 24 DFCPCGMSAYDYCVKPFNEPQWDAERFCTEQAKGHLVSESGEADFYAQLVSEN 83
QY 61 KEVLTIRYIWGLAVONKGPC-----SSISTENLVDPF--BCFVNSRDTRLREMFKVD 111
DB 84 IESVEHVWVWGLDRRKEQCSSEWSDSGSVSENLILYMKKCALERETGFHKWINTLG 143
QY 112 CEOQHSFICKF 122
DB 144 CQKNPFVCKF 154

RESULT 20
Q71R01 PRELIMINARY; PRT; 158 AA.
AC 071R01;
DT 05-JUL-2004 (TREMBlrel. 27, Created)
DT 05-JUL-2004 (TREMBlrel. 27, Last sequence update)
DE 05-JUL-2004 (TREMBlrel. 27, Last annotation update)
DE Stejagreggin-A alpha chain.
OS Trimeresurus stejagreggi (Chinese green tree viper).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidae;
OC Viperidae; Crotalinae; Trimeresurus.
NCBI_Taxid=39682;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Venom gland;
RA Lee W.-H., Liu H., Zhang Y.;
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL: AF354924; AAC15166.1;
DR GO: GO:0005529; F:sugar binding; IEA.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Pancratia_ac.
DR PRINTS: PR01504; PNCREATITSAP.
DR SMART: SM00034; CLECT.1.
DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
SQ SEQUENCE 158 AA; 18055 MW; 543E35789EDCCDC CRC64;

Query Match 44.5%; Score 309.5; DB 2; Length 158;
Best Local Similarity 45.8%; Pred. No. 1,1e-24;
Matches 60; Conservative 21; Mismatches 41; Indels 9; Gaps 2;

QY 1 DLECPGMSSTDYCYKPFQEMTWASAEFCSGEOAKGHLVETALASFYDNLVLYAN 60
DB 24 DFCPCGMSAYDYCVKPFNEPQWDAERFCTEQAKGHLVSESGEADFYAQLVSEN 83
QY 61 KEVLTIRYIWGLAVONKGPC-----SSISTENLVDPF--BCFVNSRDTRLREMFKVD 111
DB 84 IQPEIYVWGLDRRKEQCSSEWSDSGSVSENLILYMKKCALERETGFHKWINTLG 143
QY 112 CEOQHSFICKF 122
DB 144 CQKNPFVCKF 154

RESULT 21
ABA2 TRIAB STANDARD; PRT; 134 AA.
AC P81112;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Albogagreggin A subunit 2.
OS Trimeresurus albolabris (white-lipped pit viper).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidae;
OC Viperidae; Crotalinae; Trimeresurus.
NCBI_Taxid=8765;

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RN [1]
RP SEQUENCE.
RC TISSUE=Venom;
RA MEDLINE=98189535; Pubmed=9531050;
RA Kowalaka M.A., Tan L., Holt J.C., Peng M., Karczewski J.,
RA Calvete J.J., Niewiarowski S.;
RT "Albogagreggins A and B. Structure and interaction with human
RT platelets."
RL Thromb. Haemost. 79:609-613 (1998).
CC -1- FUNCTION: Bind to platelet GPIb/IX receptor system and stimulates
CC agglutination.
CC -1- SUBUNIT: Heterotetramer of the subunits 1, 2, 3 and 4, disulfide-
CC linked.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
DR HSP: P23806; 1J34.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_C; 1.
DR PRINTS: PR01504; PNCREATITSAP.
DR SMART: SM00034; CLECT.1.
DR PROSITE: PS00615; C_TYPE_LLECTIN_2; 1.
DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
KW Direct protein sequencing; Lectin.
FT DOMAIN 1 134 C-type lectin.
FT DISULFID 4 15 By similarity.
FT DISULFID 32 129 By similarity.
FT DISULFID 104 121 By similarity.
SQ SEQUENCE 134 AA; 15556 MW; 5F9D71FC86DE2435 CRC64;

Query Match 44.1%; Score 306.5; DB 1; Length 134;
Best Local Similarity 42.0%; Pred. No. 1,9e-24;
Matches 55; Conservative 26; Mismatches 41; Indels 9; Gaps 2;

QY 1 DLECPGMSSTDYCYKPFQEMTWASAEFCSGEOAKGHLVETALASFYDNLVLYAN 60
DB 1 DFCPLPGMSAYDYCVKPFNEPQWDAERFCTEQAKGHLVSESGEADFYAQLVSEN 60
QY 61 KEVLTIRYIWGLAVONKGPC-----SSISTENLVDPF--BCFVNSRDTRLREMFKVD 111
DB 61 IQPEIYVWGLDRRKEQCSSEWSDSGSVSENLILYMKKCALERETGFHKWINTLG 120
QY 112 CEOQHSFICKF 122
DB 121 CQKNPFVCKF 131

RESULT 22
Q8UTV9 PRELIMINARY; PRT; 154 AA.
AC Q8UTV9;
DT 01-OCT-2002 (TREMBlrel. 22, Created)
DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
DT 05-JUL-2004 (TREMBlrel. 27, Last annotation update)
DE C-type lectin (Agglutinin-alpha 1 subunit precursor).
OS Agkistrodon acutus (Hundred-pace snake) (Deinagkistrodon acutus).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidae;
OC Viperidae; Crotalinae; Deinagkistrodon.
NCBI_Taxid=36307;
RN [1]
RP SEQUENCE FROM N.A.
RA Yu H., Xiang K., Wang Y., Liu J.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=21542539; Pubmed=11686327;
RA Wang W.J., Huang T.F.;
RT "A novel tetrameric venom protein, agglutinin from Agkistrodon acutus,
RT acts as a glycoprotein ID agonist."
RL Thromb. Haemost. 86:1077-1086 (2001).
RN [3]
RP SEQUENCE FROM N.A.

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RX MEDLINE=22839357; PubMed=12958616;
 RA Wang W.-J., Ling Q.-D., Liao M.-Y., Huang T.-F.;
 RT "A tetrameric glycoprotein Ib-binding protein, agglucetin, from
 RT Formosan bat viper: structure and interaction with human platelets";
 RL Thromb. Haemost. 90:465-475(2003).
 DR EMBL: AY091759; AAC22787.1; -.
 DR EMBL: AF540645; AAN23124.1; -.
 DR HSSP: P23806; 1J34.
 DR GO: GO:0005529; F:sugar binding; IEA.
 DR InterPro: IPR001304; Lectin_C.
 DR InterPro: IPR003990; Pancreatis_ac.
 DR Pfam: PF00059; Lectin_C; 1.
 DR PRINTS: PR01504; PNCREATITSAP.
 DR SMART: SM00034; CLECT; 1.
 DR PROSITE: PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
 KW Lectin; signal.
 FT SIGNAL 1 23 Potential.
 FT CHAIN 24 154 agglucetin-alpha 1 subunit.
 SQ SEQUENCE 154 AA; 17317 MW; AA08E518501BECC7 CRC64;

Query Match 43.8%; Score 304.5; DB 2; Length 154;
 Best Local Similarity 41.5%; Pred. No. 3.6e-24;
 Matches 54; Conservative 32; Mismatches 33; Indels 11; Gaps 3;

QY 1 DECPGMSSTRYCYKPFKQEMTWASAEFCSQAKGHLISVETALASFDVNLVYAN 60
 DB 24 DVDCFLGMSAVDQSCYRVEFLTKTMDAEKFTERRPKGHLVIESAGERDFAQGVSEN 83
 QY 61 KEVLTFTYTWIGLRVONKGGPC-----SSISENVLVD--PFCFVNSDTRLREPKVD 111
 DB 84 KQ--TNNVWLGLIKIQSGQOCSTEWTDGSSVSEYSEYQSKCFVLEKNTGFRWLNIN 141
 QY 112 CEQHSFICK 121
 DB 142 CGSEVAFVCK 151

RESULT 23
 Q9YGN5 PRELIMINARY; PRT; 154 AA.
 AC Q9YGN5;
 DT 01-MAY-1999 (TrEMBLrel. 10, Created)
 DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Fibrinogen clotting inhibitor A chain.
 OS Agkistrodon halys brevicaudus (Korean slanders snake) (Gloydinus halys brevicaudus).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidea;
 OC Viperidae; Crotalinae; Gloydus.
 OC NCBI_TaxID=259325;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Kim D.S., Koh Y.S.;
 RL Submitted (FEB-1999) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AF125309; AAD18055.1; -.
 DR HSSP: P23806; 1J34.
 DR GO: GO:0005529; F:sugar binding; IEA.
 DR InterPro: IPR001304; Lectin_C.
 DR InterPro: IPR003990; Pancreatis_ac.
 DR Pfam: PF00059; Lectin_C; 1.
 DR PRINTS: PR01504; PNCREATITSAP.
 DR SMART: SM00034; CLECT; 1.
 DR PROSITE: PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
 SQ SEQUENCE 154 AA; 17293 MW; 8D06F7DDFA0D140D CRC64;

Query Match 43.8%; Score 304.5; DB 2; Length 154;
 Best Local Similarity 44.6%; Pred. No. 3.6e-24;
 Matches 58; Conservative 20; Mismatches 43; Indels 9; Gaps 2;

QY 1 DECPGMSSTRYCYKPFKQEMTWASAEFCSQAKGHLISVETALASFDVNLVYAN 60

DB 24 DECPGMSNNHGHQVAFNQMTEWDAEFCSQAKGHLISVETALASFDVNLVYAN 83
 QY 61 KEVLTFTYTWIGLRVONKGGPC-----SSISENVLVDPE--CFVNSDTRLREPKVD 111
 DB 84 IETSPPHWITGLRDEKEQCSSEMSDSSVSEYENIEMASKTCLGLIELDSYHKVNVY 143
 QY 112 CEQHSFICK 121
 DB 144 CGQNPVCE 153

RESULT 24
 Q98UJ0 PRELIMINARY; PRT; 146 AA.
 ID Q98UJ0;
 AC Q98UJ0;
 DT 01-JUN-2001 (TrEMBLrel. 17, Created)
 DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Factor XI/Factor X binding protein A chain.
 GN Name=XI/Xbp-a;
 OS Trimeresurus flavoviridis (Habu) (Protochrope flavoviridis).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidea;
 OC Viperidae; Crotalinae; Trimeresurus.
 OC NCBI_TaxID=88087;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Tani A., Ogawa T., Nose T., Nikandorov N.N., Deshinaru M., Chijiwa T.,
 RA Chang C., Fukumaki Y., Ono M.;
 RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AB046491; BAB21452.1; -.
 DR HSSP: P23806; 1IXX.
 DR GO: GO:0005529; F:sugar binding; IEA.
 DR InterPro: IPR001304; Lectin_C.
 DR InterPro: IPR003990; Pancreatis_ac.
 DR Pfam: PF00059; Lectin_C; 1.
 DR PRINTS: PR01504; PNCREATITSAP.
 DR SMART: SM00034; CLECT; 1.
 DR PROSITE: PS00615; C_TYPE_LLECTIN_1; 1.
 DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
 SQ SEQUENCE 146 AA; 16461 MW; 6ADF0E032544316C CRC64;

Query Match 43.5%; Score 302.5; DB 2; Length 146;
 Best Local Similarity 44.5%; Pred. No. 5.5e-24;
 Matches 57; Conservative 25; Mismatches 37; Indels 9; Gaps 2;

QY 3 ECPGMSSTRYCYKPFKQEMTWASAEFCSQAKGHLISVETALASFDVNLVYANKE 62
 DB 18 DCLSGMSYEGHCYAFKFKYKTEWDAERVCTEQAKGAHLVSISSGEADPFAQLVYONNK 77
 QY 63 YLTRYTWIGLRVONKGGPC-----SSISENVLVDPE--CFVNSDTRLREPKVDCE 113
 DB 78 RLDFYTWIGLRVONKGGPC-----SSISENVLVDPE--CFVNSDTRLREPKVDCE 137
 QY 114 QOHSFICK 121
 DB 138 QQNPVCE 145

RESULT 25
 IXA TRIPL STANDARD; PRT; 152 AA.
 ID IXA TRIPL;
 AC P23806; Q91246;
 DT 01-NOV-1991 (Rel. 20, Created)
 DT 15-JUL-1998 (Rel. 36, Last sequence update)
 DT 25-OCT-2004 (Rel. 45, Last annotation update)
 DE Coagulation factor IX/factor X-binding protein A chain precursor
 DE (IX/X-8P).
 OS Trimeresurus flavoviridis (Habu) (Protochrope flavoviridis).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidea;

OC Viperidae; Crocodyliae; Trimeresurus.
 OX NCBI_TaxID=88087;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=96184662; PubMed=8645314; DOI=10.1006/bbrc.1996.0414;
 RA Matsuzaki R., Yoshihara E., Yamada M., Shima K., Atoda H., Morita T.;
 RT "cDNA Cloning of IX/X-BP, a heterogeneous two-chain anticoagulant
 RT protein from snake venom.";
 RL Biochem. Biophys. Res. Commun. 220:382-387 (1996).
 RN [2]
 RP SEQUENCE OF 24-152.
 RC TISSUE=Venom;
 RX MEDLINE=91332000; PubMed=1831197;
 RA Atoda H., Hyuga M., Morita T.;
 RT "The primary structure of coagulation factor IX/factor X-binding
 RT protein isolated from the venom of Trimeresurus flavoviridis. Homology
 RT with asialoglycoprotein receptors, proteoglycan core protein,
 RT tetraneurin, and lymphocyte Fc epsilon receptor for immunoglobulin
 RT E.";
 RL J. Biol. Chem. 266:14903-14911 (1991).
 RN [3]
 RP CHARACTERIZATION.
 RC TISSUE=Venom;
 RX PubMed=874314;
 RA Atoda H., Ishikawa M., Yoshihara E., Sekiya F., Morita T.;
 RT "Blood coagulation factor IX-binding protein from the venom of
 RT Trimeresurus flavoviridis: purification and characterization.";
 RL J. Biochem. 118:965-973 (1995).
 RN [4]
 RP X-RAY CRYSTALLOGRAPHY (2.5 ANGSTROMS).
 RX MEDLINE=97331317; PubMed=9187649;
 RA Mizuno H., Fujimoto Z., Koizumi M., Kano H., Atoda H., Morita T.;
 RT "Structure of coagulation factors IX/X-binding protein, a heterodimer
 RT of C-type lectin domains.";
 RL Nat. Struct. Biol. 4:438-441 (1997).
 RN [5]
 RP X-RAY CRYSTALLOGRAPHY (1.55 ANGSTROMS).
 RX PubMed=10339409; DOI=10.1006/jmbi.1999.2756;
 RA Mizuno H., Fujimoto Z., Koizumi M., Kano H., Atoda H., Morita T.;
 RT "Crystal structure of coagulation factor IX-binding protein from habu
 RT snake venom at 2.6 Å: implication of central loop swapping based on
 RT deletion in the linker region.";
 RL J. Mol. Biol. 289:103-112 (1999).
 CC -1- FUNCTION: Anticoagulant protein which binds with factor IX and
 CC factor X in the presence of calcium with a 1 to 1 stoichiometry.
 CC -1- SUBUNIT: Heterodimer of chains A and B; disulfide-linked.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
 CC -----
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 CC or send an email to license@isb-sib.ch).
 CC -----
 CC EMBL; D83331; BAA11887.1; -;
 DR PIR; JCA4690; JCA4690.
 DR PDB; 1IXX; X-ray; A/C/E=24-152.
 DR PDB; 1UJ4; X-ray; A=24-152.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR003990; Pancreatis_ac.
 DR Pfam; PF00059; Lectin_C; 1.
 DR PRINTS; PRO1504; PNCREATITSAF.
 DR SMART; SM00034; CLECT; 1.
 DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
 DR PROSITE; PS00615; C_TYPE_LECTIN_2; 1.
 DR 3D-structure; Calcium; Direct protein sequencing; Lectin; Signal.
 KW SIGNSL 1 23
 FT CHAIN 24 152
 FT Coagulation factor IX/factor X-binding
 FT protein A chain.

FT DOMAIN 24 152 C-type lectin.
 FT DISULFID 25 36
 FT DISULFID 53 150
 FT DISULFID 102 102 Interchain (with C-98 in chain B).
 FT DISULFID 125 142
 FT TURN 27 28
 FT STRAND 30 32
 FT TURN 33 34
 FT TURN 35 44
 FT STRAND 46 54
 FT HELIX 55 56
 FT TURN 58 59
 FT TURN 61 62
 FT STRAND 68 81
 FT STRAND 89 95
 FT STRAND 105 105
 FT STRAND 107 108
 FT STRAND 111 111
 FT STRAND 117 117
 FT HELIX 119 121
 FT STRAND 125 128
 FT STRAND 130 132
 FT HELIX 133 134
 FT TURN 137 140
 FT STRAND 142 143
 FT TURN 146 152
 SQ SEQUENCE 152 AA; 17213 MW; FB3DD236900263 CRC64;
 Query Match 43.5%; Score 302.5; DB 1; Length 152;
 Best Local Similarity 44.5%; Pred. No. 5,8e-24;
 Matches 57; Conservative 25; Mismatches 37; Indels 9; Gaps 2;
 QY 3 ECPGSGWSDRYCYPKPEKQEMTWASAEKRCBQAKGHLSTVETALASPVQDVLANK 62
 Db 24 DCLSGWSTYEGHYTFAFEKTKTWEDAEKVCIEBQAKAHVSISSGEADPFAQLVQNK 83
 QY 63 YLTFRYTWIGLRVQNKQPC-----SSISYENTVDPEF--CFMWSRDRLREMFVDCB 113
 Db 84 RLDFYTWIGLRQVQNKQCNSEWSDSSVSYENWIEAEKTKGLEKETDFRQVNIYQG 143
 QY 114 QQHSFICK 121
 Db 144 QQNPVCE 151
 RESULT 26
 ID 08UGT7 PRELIMINARY; PRT; 158 AA.
 AC 08UGT7;
 DT 01-OCT-2002 (TrEMBLrel. 22, Created)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE C-type lectin-like protein TMVA A chain.
 OS Trimeresurus mucroquatus (Taiwan habu) (Protothrops
 OS mucroquatus).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidodactylia; Squamata; Scleroglossa; Serpentes; Colubroidea;
 OC Viperidae; Crocodyliae; Protothrops.
 OX NCBI_TaxID=103944;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22210230; PubMed=12220719; DOI=10.1016/S0041-0101(02)00144-7;
 RA Wei Q., Lu Q.M., Jin Y., Li R., Wei J.F., Wang W.Y., Xiong Y.L.;
 RT "Purification and cloning of a novel C-type lectin-like protein with
 RT platelet aggregation activity from Trimeresurus mucroquatus
 RT venom.";
 RL Toxicol. 40:1331-1338 (2002).
 DR EMBL; AY099321; AAM43808.1; -;
 DR PDB; 1V4L; X-ray; A/C/E=24-158.
 DR GO; GO:0005529; F:sugar binding; IEA.
 DR InterPro; IPR001304; Lectin_C.
 DR InterPro; IPR003990; Pancreatis_ac.
 DR Pfam; PF00059; Lectin_C; 1.

DR	PRINTS; PR01504; PNCREATITSAP.
DR	SMART; SM00034; CLECT; 1.
DR	PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR	PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
DR	LECTIN.
SQ	SEQUENCE 158 AA; 18101 MM; CD0B71F02289AA6E CRC64;
Query March	43.2%; Score 300.5; DB 2; Length 158;
Best Local Similarity	40.9%; Pred. No. 9.9e-24;
Matches 54; Conservative 25; Mismatches 44; Indels 9; Gaps 2.	
QY	1 DLBCPSGMSSTRDYRCYKPFKQEMTWASAEKCSSEQAKGHLISVETALAEAFVDNVLAN 60
Db	24 DFDIDIPGMSAIDRCYCYQAFSEPKMWDSEKCSBEVKSHLVSISSSEGGPFVAQLVAEK 83
QY	61 KEYITRIYIGLRYONKQPC-----SSISYENVL--DPPECFMWSRDTPLRLREWFYD 111
Db	84 IKTSFYQYVIGLRIQNKEQCCRSWSDASVYVEYLFFQSSKKCYALKKGTLELRTWFENVY 143
QY	112 CEQGHSPICKFT 123
Db	144 CGRENPFVCKYT 155

RESULT 27	Q6TFPH0	PRELIMINARY;	PRT;	158 AA.
AC	Q6TFPH0			
DT	05-JUL-2004 (TREMBLrel. 27, Created)			
DT	05-JUL-2004 (TREMBLrel. 27, Last sequence update)			
DT	05-JUL-2004 (TREMBLrel. 27, Last annotation update)			
DE	Macrosetin alpha chain.			
OS	Trimeresurus mucrosquamatus (Taiwan habu) (Protochrotophs			
OS	mucrosquamatus).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidae;			
OC	Viperidae; Crotalinae; Protochrotophs.			
OX	NCBI_TaxID=103944;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Venom gland;			
RA	Hung C.-C., Huang K.-F., Chiu S.-H.;			
RL	Submitted (SEP-2003) to the EMBL/GenBank/DBJ databases.			
DR	EMBL; AY380533; AA093686.1; ..			
DR	GO; GO:0005529; F:sugar binding; IEA.			
DR	InterPro; IPR001304; Lectin_C.			
DR	InterPro; IPR003990; Pancreatitis_ac.			
DR	Pfam; PF00009; Lectin C.1.			
DR	PRINTS; PR01504; PNCREATITISAP.			
DR	SMART; SM00034; CLECT; 1.			
DR	PROSITE; PS00615; C TYPE LECTIN 1; 1.			
DR	PROSITE; PS50041; C TYPE LECTIN 2; 1.			
DR	SEQUENCE 158 AA; _18125 MW; 41.9ABE2F0344B9CA CRC64;			
QY	Query Match	43.2%;	Score 300.5;	DB 2; Length 158;
QY	Best Local Similarity	40.9%;	Pred. No. 9.9e-24;	
QY	Matches 54; Conservative 25; Mismatches 44; Indels 9; Gaps 2			
QY	1 DLECPGSSSDRCYKCYKCFKQEMTWASERCSBQAKGHLISVETALEASFDVNLVLAN 60			
QY	24 DFDCLPGASADRYCRICQYAFSEPKWNEDAESFCEBVKTSHLVSISSGSDPVAQLVAEK 83			
QY	61 KEYVTRYVYIWLGLRYVQNKQPC-----SSISYENVLV--DEPECFMVGRDTRLRLRMFPYVD 111			
QY	84 IKTSFYQYVIGLRIONKEQOGRSEWSDASVYENVLYKQSSKCYALKKGTETRLTFWPNVY 143			
QY	112 CEQGHSPICKET 123			
QY	144 CGRENPFVCKYT 155			
RESULT 28				
VXVA CRODU				

ID	CVYA_CRODPU	STANDARD;	PRT;	158	AA.
AD	093426;				
DT	28-FEB-2003	(Rel. 41, Created)			
DT	28-FEB-2003	(Rel. 41, Last sequence update)			
DT	25-OCT-2004	(Rel. 45, Last annotation update)			
OS	Convulxin alpha precursor (CVX alpha).				
OC	Crotalus durissus terrificus (South American rattlesnake).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
OC	Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;				
OC	Viperidae; Crotalinae; Crotalus.				
NCBI	TaxID=8732;				
RN	[1]				
RP	SEQUENCE FROM N.A., AND SEQUENCE OF 24-48; 61-66; 108-120; 139-145 AND				
RP	149-153.				
RC	TISSUE=Venom gland;				
RC	MEDLINE=96324901; PubMed=9657980;				
RA	Leduc M., Bon C.;				
RT	"Cloning of subunits of convulxin, a collagen-like platelet-				
RT	aggregating protein from Crotalus durissus terrificus venom."				
RL	Biochem. J. 333:389-393 (1998).				
RN	[2]				
RP	SEQUENCE FROM N.A.				
RC	TISSUE=Venom gland;				
RA	Radis-Baptista G., Camargo A.C.M., Yamane T.;				
RA	Submitted (AVG-2002) to the EMBL/GenBank/DBJ databases.				
RN	[3]				
RP	X-RAY CRYSTALLOGRAPHY (2.4 ANGSTROMS) OF 24-158.				
RX	PubMed=14521935; DOI=10.1016/j.bbrc.2003.09.032;				
RA	Murakami M.T., Zela S.P., Gava L.M., Michelan-Duarte S.,				
RA	Cintura A.C.O., Arni R.K.;				
RT	"Crystal structure of the platelet activator convulxin, a disulfide-				
RT	linked alpha4beta4 cyclic tetramer from the venom of Crotalus durissus				
RL	terrificus."				
RL	Biochem. Biophys. Res. Commun. 310:478-482 (2003).				
RN	[4]				
RP	X-RAY CRYSTALLOGRAPHY (2.7 ANGSTROMS) OF 26-158.				
RX	PubMed=14684891;				
RA	Batuwangala T., Leduc M., Gibbins J.M., Bon C., Jones E.Y.;				
RT	"Structure of the snake-venom toxin convulxin."				
RL	Acta Crystallogr. D 60:46-53 (2004).				
CC	-1- FUNCTION: Binds to the platelet and collagen receptor,				
CC	-1- SUBUNIT: Heterotrimer of four alpha chains and four beta chains;				
CC	disulfide-linked.				
CC	-1- SIMILARITY: Contains 1 C-type lectin family domain.				
CC					
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CC	or send an email to license@isb-sib.ch).				
CC					
DR	EMBL; Y16348; CA476181.1; -;				
DR	EMBL; AF541862; AAQ11363.1; -;				
DR	PDB; 1UM8; X-ray; A/B=24-157.				
DR	PDB; 1U0S; X-ray; A/C=24-157.				
DR	InterPro; IPR001304; Lectin C.				
DR	InterPro; IPR003990; Pancreatis_ac.				
DR	Pfam; PF00059; Lectin_C; 1.				
DR	PRINTS; PR01504; PNCREXTITSAP.				
DR	SMART; SM00034; CLECT; 1.				
DR	PROSITE; PS00615; C_TYPE_LECTIN_1; FALSE_NEG.				
DR	PROSITE; PS50041; C_TYPE_LECTIN_2; 1.				
KW	3d-structure; Direct protein sequencing; Glycoprotein; Lectin; Signal.				
FT	SIGNAL	1	23		
FT	CHAIN	24	158	Convulxin alpha.	
FT	DOMAIN	34	158	C-type lectin.	
FT	DISULFID	27	38		
FT	DISULFID	55	152		
FT	DISULFID	104	104	Interchain (with C-100 in beta chain).	
FT	DISULFID	127	144		

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FT DISUFID 158 158 Interchain (with C-26 in beta chain).
SQ SEQUENCE 158 AA, 18141 MW, 949P9C6D673E2318 CRC64;

Query Match
Best Local Similarity 42.2%; Score 293.5; DB 1; Length 158;
Matches 56; Conservative 27; Mismatches 38; Indels 9; Gaps 2;

QY 2 LECPSGWSSTRDYCYKPFKQEMTWASAEFCSOAKGHLISVETALASFDVNLVYANK 61
DB LHCPSPDMYYDDQHCYRIFNENMMEDAEWECTKQAKGHLISVSKAKADFAVMYTONI 84
QY 62 EVLTRYITWIGLRVONKQGPC-----SSISYENLVDPF--ECPMVSRLDRLREMPKVD 112
DB 85 EESFSFVSIGLRVONKQKOCSTKSDGSSVSYDNLDLVYTKSLKKEGFRKMFVASC 144
QY 113 EOHSPFICK 122
DB 145 ICKIPFVCKF 154

RESULT 29
Q9DG39 PRELIMINARY; PRT; 152 AA.
AC Q9DG39;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Halysin A-chain precursor.
CN Name=HXNA;
OS Agkistrodon halys pallasi (Chinese water moccasin) (Gloydine halys
OS pallasi).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodactylia; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Crotalinae; Gloydius.
OC NCB1_Taxid=8714;
RN (1)
RP SEQUENCE FROM N.A.
RA Koo B.H., Sohn Y.D., Kim D.S., Jang Y.S., Chung K.H.;
RA Submitted (SEP-1999) to the EMBL/GenBank/DBJ databases.
RL EMBL: AF190827; AAC17178.1; -.
DR HSSP; P23806; IJ34.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lactin_C.
DR InterPro; IPR003990; Pancreat_ ac.
DR Pfam; PF00059; Lactin_C; 1.
DR PRINTS; PR01504; PNCREATITTSAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LACTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LACTIN_2; 1.
KW Signal.
FT CHAIN 1 23 Potential.
FT SIGNAL 24 152 halysin A-chain.
SQ SEQUENCE 152 AA, 17455 MW, BDD7ADIDC280C28D CRC64;

Query Match
Best Local Similarity 42.1%; Score 292.5; DB 2; Length 152;
Matches 53; Conservative 27; Mismatches 39; Indels 9; Gaps 2;

QY 3 ECPGSGWSSTRDYCYKPFKQEMTWASAEFCSOAKGHLISVETALASFDVNLVYANK 62
DB DCPGSGWSYEGHCYNIFHLFKTWAABERFCRKQVKAHLVSISSSEADPVAQLVSENNK 83
QY 63 YLTRYITWIGLRVONKQGPC-----SSISYENLVDPF--ECPMVSRLDRLREMPKVD 113
DB 84 RGIYITWIGLRVONKQKQSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSS 143
QY 114 OQHSPFICK 121
DB 144 ERNPFVCE 151

RESULT 30
Q8J1W0

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ID Q8J1W0 PRELIMINARY; PRT; 152 AA.
AC Q8J1W0;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE ACF 1/2 A-chain.
OS Agkistrodon acutus (Hundred-pace snake) (Deinagkistrodon acutus).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodactylia; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Crotalinae; Deinagkistrodon.
OC NCB1_Taxid=36307;
RN (1)
RP SEQUENCE FROM N.A.
RA Yu H., Xiang K., Wang Y., Liu J.;
RA Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
RL EMBL: AY091758; AAM22786.1; -.
DR PIR; JC7134; JC7134.
DR HSSP; P23806; IJ34.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lactin_C.
DR InterPro; IPR003990; Pancreat_ ac.
DR Pfam; PF00059; Lactin_C; 1.
DR PRINTS; PR01504; PNCREATITTSAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LACTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LACTIN_2; 1.
SQ SEQUENCE 152 AA, 17108 MW, B0870F3DA0A4D23B CRC64;

Query Match
Best Local Similarity 41.5%; Score 288.5; DB 2; Length 152;
Matches 55; Conservative 24; Mismatches 40; Indels 9; Gaps 2;

QY 3 ECPGSGWSSTRDYCYKPFKQEMTWASAEFCSOAKGHLISVETALASFDVNLVYANK 62
DB 24 DCPGSGWSYEGHCYNIFHLFKTWAABERFCRKQVKAHLVSISSSEADPVAQLVSENNK 83
QY 63 YLTRYITWIGLRVONKQGPC-----SSISYENLV--DPFECMVSRLDRLREMPKVD 113
DB 84 SAKIHWITGLRVONKQKQSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSSQSS 143
QY 114 OQHSPFICK 121
DB 144 QRDPFVCE 151

RESULT 31
Q9DEF9 PRELIMINARY; PRT; 152 AA.
AC Q9DEF9;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Anticoagulant protein A precursor.
CN Name=acd-a;
OS Agkistrodon acutus (Hundred-pace snake) (Deinagkistrodon acutus).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodactylia; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Crotalinae; Deinagkistrodon.
OC NCB1_Taxid=36307;
RN (1)
RP SEQUENCE FROM N.A.
RA Tissue=Venom gland;
RA MEDLINE=22167433; PubMed=12175618; DOI=10.1016/S0041-0101(01)00289-6;
RA Tani A., Ogawa T., Nose T., Nikandrov N.N., Deshimaru M., Chijiwa T.,
RA Chang C.C., Fukumaki Y., Ohno M.;
RA "Characterization, primary structure and molecular evolution of
RT anticoagulant protein from Agkistrodon actus venom.";
RL Toxicon 40:803-813 (2002)
DR EMBL; AB036880; BAA99281.1; -.
DR PIR; JC7134; JC7134.
DR HSSP; P23806; IJ34.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lactin_C.

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DR InterPro, IPR003990; Pancreatis_ac.
DR Pfam; PF00059; Lectin C; 1.
DR PRINTS; PR01504; PNCREATITISAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_2; 1.
KW Signal.
FT SIGNAL
SQ SEQUENCE 152 AA; 17124 MW; 5C59C0F503A4D223 CRC64;

Query Match 41.4%; Score 288.5; DB 2; Length 152;
Best Local Similarity 43.0%; Pred. No. 1.8e-22;
Matches 55; Conservative 24; Mismatches 40; Indels 9; Gaps 2;

QY 3 ECPGSGSTDRYCYKPFKQEMTWASAEPCSEQAQKGHLSVETALASFDVNLANKK 62
DB 24 DCSGSSSYEGHGYKAFKQSKTADAEFCTKQVNGHIVSIESGEADPFVQLAOKIK 83
QY 63 YLTRYVIGLRVONKQGPC-----SSISYENLV--DPFECFVSRDTRLREMFVDC 113
DB 84 SAKIHWIGLRQNKKEKQCSSEMSDSSISYENWIEESKCLGVHAKTGFRKWFNPFCE 143
QY 114 QQHSFICK 121
DB 144 QQDPFVCE 151

RESULT 32
Q91841 PRELIMINARY; PRT; 136 AA.
AC Q91841;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Aggretin alpha chain (Fragment).
OS Agkistrodon rhodostoma (Malayan pit viper) (Colloleasma rhodostoma).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Crotalinae; Calloselasma.
OX NCBI_Taxid=8717;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Venom gland;
RA MEDLINE=99443731; PubMed=10512747; DOI=10.1006/dbrc.1999.1457;
RA Chung C.H., Au L.C., Huang T.F.;
RT "Molecular cloning and sequence analysis of aggretin, a collagen-like
RT platelet aggregation inducer.";
RT Biochem. Biophys. Res. Commun. 263:723-727(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Venom gland;
RA Chung C.H., Au L.C., Huang T.F.;
RA Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AP244900; AAF79952.1; -.
DR PIR; PC7027; PC7027.
DR HSSP; P23806; J034.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin C.
DR InterPro; IPR003990; Pancreatis_ac.
DR Pfam; PF00059; Lectin C; 1.
DR PRINTS; PR01504; PNCREATITISAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_2; 1.
FT NON_TER 1
FT NON_TER 136
SQ SEQUENCE 136 AA; 15796 MW; 3B474A4149F0027A CRC64;

Query Match 41.4%; Score 288; DB 2; Length 136;
Best Local Similarity 43.8%; Pred. No. 1.8e-22;
Matches 57; Conservative 21; Mismatches 40; Indels 12; Gaps 4;

QY 3 ECPGSGSTDRYCYKPFKQEMTWASAEPCSEQAQKGHLSVETALASFDVNLANKK 62

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DB 4 DDDFMSPYDHCYAFNEQKTDSEAEKFCRAQENGAIHASTIESNGEDFV-SWISQKD 62
QY 63 YLT--RYIWIIGLRVONKQGPC-----SSISYENLV--DPFECFVSRDTRLREMFVDC 111
DB 63 ELADEDYVWIGLRQNKKEKQCSSEMSDSSISYENWIEESKCLGVHIEIGFRKWFNPFCE 122
QY 112 CEQHSFICK 121
DB 123 CEQMAFVCK 132

RESULT 33
Q91AM1 PRELIMINARY; PRT; 152 AA.
AC Q91AM1;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Agkistacucin A chain.
OS Agkistodon acutus (Hundred-pace snake) (Deinagkistodon acutus).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Crotalinae; Deinagkistodon.
OX NCBI_Taxid=36307;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Venom;
RA Yu H.-X., Xiang K.-J., Liu J.;
RT "cDNA sequencing and analysis of eleven C-type lectin-like protein
RT subunits from Agkistodon acutus.";
RT Acta Biochim. Biophys. Sin. 0:0-0(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Venom;
RA Cheng X., Qian Y., Liu Q., Li B.X.Y., Ding J., Xu Z., Huang W.,
RA Liu J.;
RA Submitted (AUG-1999) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RC TISSUE=Venom;
RA Yu H.-X., Xiang K.-J., Wang Y., Liu J.;
RA Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AP176420; AAF26286.2; -.
DR PIR; JC7134; JC7134.
DR HSSP; P23806; J034.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin C.
DR InterPro; IPR003990; Pancreatis_ac.
DR Pfam; PF00059; Lectin C; 1.
DR PRINTS; PR01504; PNCREATITISAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_2; 1.
SQ SEQUENCE 152 AA; 17109 MW; 76A0F636DBF0D7AB CRC64;

Query Match 41.4%; Score 287.5; DB 2; Length 152;
Best Local Similarity 43.0%; Pred. No. 2.2e-22;
Matches 55; Conservative 22; Mismatches 42; Indels 9; Gaps 2;

QY 3 ECPGSGSTDRYCYKPFKQEMTWASAEPCSEQAQKGHLSVETALASFDVNLANKK 62
DB 24 DCSGSSSYEGHGYKAFKQSKTADAEFCTKQVNGHIVSIESGEADPFVQLAOKIK 83
QY 63 YLTRYVIGLRVONKQGPC-----SSISYENLV--DPFECFVSRDTRLREMFVDC 113
DB 84 SAKIHWIGLRQNKKEKQCSSEMSDSSISYENWIEESKCLGVHIEIGFRKWFNPFCE 143
QY 114 QQHSFICK 121
DB 144 QQDPFVCE 151

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Db 1 DDCCLSGSFYEGHCYOLFRLK-TWDEAKYCN-QMDGHLVSISSNAKAEFVAQLISRK 58
Qy 61 --KEYLTRIYIWIGLRVONKGPC-----SSISYENLVDPPECFVWSRDTLRLEWPKYD 111
Db 59 LPKSAIEDRWVIGLDRSGREOCQGHMTNDSFVHIVPPTKCFVLEKOTERFKIAVNA 118
Qy 112 CEQHSFICKFTRPR 126
Db 119 CEKFPFVCKAKIPR 133

RESULT 40
Q8AYV4 PRELIMINARY; PRT; 146 AA.
AC Q8AYV4:
DT 01-MAR-2003 (TREMBLrel. 23, Created)
DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)
DE Agglucetin-beta 1 subunit precursor.
OS Agglutrodon acutus (Hundred-pace snake) (Delnaglistrodon acutus).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Crotalinae; Delnaglistrodon.
OC NCBI_Taxid=36307;
RX MEDLINE=21542539; PubMed=11686327;
RA Wang W.-J., Huang T.-F.,
RT "A novel tetrameric venom protein, agglucetin from Aglistrodon acutus,
RL Thromb. Haemost. 86:1077-1086(2001).
[2]
RN SEQUENCE FROM N.A.
RX MEDLINE=22839357; PubMed=12958616;
RA Wang W.-J., Ling Q.-D., Liao M.-Y., Huang T.-F.,
RT "A tetrameric glycoprotein ib-binding protein, agglucetin, from
RL Formosan pit viper: structure and interaction with human platelets.",
Thromb. Haemost. 90:465-475(2003).
EMBL: AF540647; AAN23126.1; -.
DR HSPF; O93427; IUMR.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Pancreatic_ac.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR01504; PNCREATTISAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Signal.
FT SIGNAL 1 23 potential.
FT CHAIN 24 146 agglucetin-beta 1 subunit.
SQ SEQUENCE 146 AA; 16728 MW; 2342BAE38EB0CB9 CRC64;

Query Match 36.8%; Score 255.5; DB 2; Length 146;
Best Local Similarity 43.2%; Pred. No. 5.3e-19;
Matches 54; Conservative 20; Mismatches 42; Indels 9; Gaps 5;

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AC P81114;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Albogagregin A subunit 4. (white-tipped pit viper).
OS Trimeresurus albolabris (white-tipped pit viper).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Crotalinae; Trimeresurus.
OC NCBI_Taxid=8765;
RX MEDLINE=98189535; PubMed=9531050;
RA Kowalska M.A., Tan L., Holt J.C., Peng M., Karczewski J.,
RA Calvete J.J., Niewiarowski S.,
RT "Albogagregin A and B. Structure and interaction with human
RT platelets.",
RL Thromb. Haemost. 79:609-613(1998).
CC -1- FUNCTION: Binds to platelet GpIb/IX receptor system and stimulates
CC agglutination.
CC -1- SUBUNIT: Heterotrimer of the subunits 1, 2, 3 and 4, disulfide-
CC linked.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
DR HSPF; P22030; IUMR.
DR InterPro; IPR002353; AntifreezeII.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR00356; ANTI-FREEZEII.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Direct protein sequencing; Lectin.
FT DOMAIN 1 123 C-type lectin.
FT DISULFID 2 13 By similarity.
FT DISULFID 30 119 By similarity.
FT DISULFID 96 111 By similarity.
SQ SEQUENCE 123 AA; 14365 MW; D4CFBEB1219C9B1E CRC64;

Query Match 36.3%; Score 252.5; DB 1; Length 123;
Best Local Similarity 39.7%; Pred. No. 9e-19;
Matches 52; Conservative 22; Mismatches 36; Indels 21; Gaps 6;

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Qy 3 ECPGSGSSTRDYCYKFPKQEMTWASAEKRCSEQAKGHLISVETALBASFDVNLANKK 62
Db 24 DCPSEWSSYEGHCYKAFKQSKTWADAEKPTQOHKSHLVSFSSSEADFFV-VTLTPS 81
Qy 63 YLTRIYIWIGLR-VON-----KGQPCSSISYENLVDPPECFVWSRDTLRLEWPKYDCEQHS 117
Db 82 LKTDLVWIGLKNINCGCYKMWSDGTLDYDKMREQFEC-LVSR-TVNNWMLSHDGGTTYS 139
Qy 118 PICKP 122
Db 140 FVCKP 144

RESULT 41
ABA4 TRIAB STANDARD; PRT; 123 AA.
ID ABA4_TRIAB

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Q6X5T3 PRELIMINARY; PRT; 152 AA.
AC Q6X5T3:
DT 05-JUL-2004 (TREMBLrel. 27, Created)
DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update)
DE C-type lectin CTU-5 (fragment).
OS Bittis arietans (African puff adder).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperidae; Viperinae; Bittis.
OC NCBI_Taxid=8692;
RN NCBI_Taxid=8692;
RX SEQUENCE FROM N.A.
RA Harrison R.A., Oliver J.L., Haason S.S., Theakston D.R.D.G.;

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RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY254327; AAQ01208.1; -.
DR HSP; O9H8F0; 1K9J.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro: IPR001304; Lectin C.
DR InterPro: IPR003990; Pancreatis_ac.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PRO1504; PNCREATITSAF.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW Lectin.
FT NON TER.
SQ SEQUENCE 152 AA; 17254 MW; 78AB99D138108149 CRC64;

Query Match
Best Local Similarity 36.2%; Score 251.5; DB 2; Length 152;
Matches 48; Conservative 27; Mismatches 42; Indels 13; Gaps 3;

QY 1 DLECPGASSTDRYCYKPKKQEMTASARPCSEQAKGHLISVETALASFDVNVLYAN 60
DB 24 DQCESEWASAYQHCYRAFKYKESVMAEKFCMEQANDHLVSIQIKANFAKLVSG- 82
QY 61 KEYLRYIYIGLRVONKQGPCSS-----ISYENLVDPFE--CEWVSRDTLREMFYD 111
DB 83 ---IAYIYIGLRDRKKEQCTSEWVDSKVTYVNRBESQMCQVLAIWGFKNWNTD 139
QY 112 CEQHSFICK 121
DB 140 CASHNPFVCK 149

RESULT 43
Q9IAM0 PRELIMINARY; PRT; 146 AA.
ID Q9IAM0;
AC Q9IAM0;
DT 01-OCT-2000 (TREMBLrel. 15, Created)
DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)
DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DE Agkistactacin B chain.
OS Agkistrodon acutus (Hundred-pace snake) (Deinagkistrodon acutus).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperae; Crotalinae; Deinagkistrodon.
OX NCBI_TaxID=36307;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Venom;
RA Cheng X., Qian Y., Liu Q., Li B.X.Y., Ding J., Xu Z., Huang W.,
RA Liu J.;
RL Submitted (AUG-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF176421; AAF6287.1; -.
DR HSP; P22030; 1IUK.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro: IPR001304; Lectin_C.
DR InterPro: IPR003990; Pancreatis_ac.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PRO1504; PNCREATITSAF.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
SQ SEQUENCE 146 AA; 16726 MW; 7360B6D6864131BB CRC64;

Query Match
Best Local Similarity 35.9%; Score 249.5; DB 2; Length 146;
Matches 53; Conservative 20; Mismatches 43; Indels 9; Gaps 5;

QY 3 EPPSGWSSDTRCYKPKKQEMTASARPCSEQAKGHLISVETALASFDVNVLYANKE 62
DB 24 DCPDWSSEYBEGHCYRPFDEPKTWADAEKFCQOHGSHLASPHSSEADFFV--VILLTPS 81
QY 63 YLTRYIYIGLR-VON---KGQPCSSISEYENLVDPCEFMASRDRLRWFVDEQGH 117
DB 82 LKTDLVWIGLKNINIGCTWKKMSDGTLDYKDRROPEC-LVSR-TVNNEMLSMDGTTCS 139

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QY 118 FICKF 122
DB 140 FVCKF 144

RESULT 44
CVXB CRODU
ID CVXB CRODU STANDARD; PRT; 148 AA.
AC 093427;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Convulxin beta precursor (CVX beta).
OS Crocalus durissus terrificus (South American rattlesnake).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Viperae; Crotalinae; Crotalus.
OX NCBI_TaxID=8732;
RN [1]
RP SEQUENCE FROM N.A., AND SEQUENCE OF 24-53; 99-109 AND 126-145.
RC TISSUE=Venom gland;
RX MEDLINE=98324301; PubMed=9657980;
RA Leduc M., Bon C.;
RT "Cloning of subunits of convulxin, a collagen-like platelet-
RT aggregating protein from Crocalus durissus terrificus venom.";
RL Biochem. J. 333:389-393(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Venom gland;
RA Radis-Baptista G., Camargo A.C.M., Yamane T.;
RL Submitted (AUG-2002) to the EMBL/GenBank/DBJ databases.
RN [3]
RP X-RAY CRYSTALLOGRAPHY (2.4 ANGSTROMS) OF 24-148.
RX PubMed=14521935; DOI=10.1016/j.bbrc.2003.09.032;
RA Murakami M.T., Zela S.P., Gava L.M., Michelen-Duarte S.,
RA Cincira A.C.O., Arni R.K.;
RT "Crystal structure of the platelet activator convulxin, a disulfide-
RT linked alpha4beta4 cyclic tetramer from the venom of Crocalus durissus
RT terrificus.";
RL Biochem. Biophys. Res. Commun. 310:478-482(2003).
RN [4]
RP X-RAY CRYSTALLOGRAPHY (2.7 ANGSTROMS) OF 25-148.
RX PubMed=14684891;
RA Batuwangala T., Leduc M., Gibbins J.M., Bon C., Jones E.Y.;
RT "Structure of the snake-venom toxin convulxin.";
RL Acta Crystallogr. D 60:46-53(2004).
CC -I- FUNCTION: Binds to the platelet and collagen receptor,
CC glycoprotein VI (GPVI).
CC -I- SUBUNIT: Heterooctamer of four alpha chains and four beta chains;
CC disulfide-linked.
CC -I- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
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CC or send an email to license@sib-sib.ch).
CC -----
DR EMBL; Y16349; CAA76182.1; -.
DR EMBL; AF541881; AAQ11362.1; -.
DR PDB; 1UWR; X-ray; C/D=24-148.
DR PDB; 1UOS; X-ray; B/D=23-148.
DR InterPro: IPR001304; Lectin_C.
DR InterPro: IPR003990; Pancreatis_ac.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PRO1504; PNCREATITSAF.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
KW 3D-structure; Direct protein sequencing; Glycoprotein; Lectin; Signal.

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FT	CHAIN	1	23	Consulx in beta.
FT	SIGNAL	24	148	C-type lectin.
FT	DOMAIN	34	148	Interchain (with C-158 in alpha chain).
FT	DISULFID	26	26	
FT	DISULFID	27	38	
FT	DISULFID	55	144	Interchain (with C-104 in alpha chain).
FT	DISULFID	100	100	
FT	DISULFID	121	136	
FT	CONFLICT	113	113	K -> E (in Ref. 2).
FT	CONFLICT	148	148	A -> V (in Ref. 2).
SQ	SEQUENCE	148 AA;	17402 MW;	94D7E3E1BC693B9F CRC64;

Query Match 35.9% Score 249.5; DB 1; Length 148;
Best Local Similarity 41.3% ; Ref. No. 2.3e-18;
Matches 52; Conservative 17; Mismatches 44; Indels 13; Gaps 5

QY	4	CPGMSGSTRDYRCYKPKQEMTWASAEKRCSEQAGSHLSVETALAEAFVNDVLYANKRY	63
Db	27	CPSHMSSYDRCKYKFKQEMTWADAEKCYCTQGHHTSHLSVFSISTEEVDFV--VKMTHQSL	84
QY	64	LTRIRYIGLRYQNKQPC-----SSISYENLVDPFECFMYSRDTRLREWFKVDCEQH	116
Db	85	KSTFEWIG--ANNINWKNCWQMSDGTKEBEYKEMHEEFEC-LISR--TFDQWMLACPSDTY	140
QY	117	SPICKP	122
Db	141	SPVCKP	146

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RESULT 45
08J1W1
ID 08J1W1 PRELIMINARY; PRT; 146 AA.
AC 08J1W1
DT 01-OCT-2002 (TREMBlRel. 22, Created)
DT 01-OCT-2002 (TREMBlRel. 22, Last sequence update)
DT 01-MAR-2004 (TREMBlRel. 26, Last annotation update)
DE AgriScutellin B-chain.
OS AgriScutodon acutus (Hundred-pace snake) (Deinagkistrodon acutus).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scieroglossa; Serpentes; Colubroidae;
OC Viperidae; Crotalinae; Deinagkistrodon.
OX NCBI_TaxID=36307;
RN [1]
RA SEQUENCE FROM N.A.
RP Yu H., Xiang K., Wang Y., Liu J.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
RR EMBL: AY091756; AAM22785.1; -.
DR PIR: JG7135; JG7135.
DR HSBP; O93427; IUDK.
DR GO; GO:0005529; F:sugar binding; IEA.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR003990; Pancratin__ac.
DR Pfam; PF00059; Lectin_C_1.
DR PRINTS; PRO1504; PNCREATITSAF.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS00041; C_TYPE_LECTIN_2; 1.
SQ SEQUENCE 146 AA; 16740 MW; 6260B6D68741317C CRC64;

Query Match 35.8%; Score 248.5; DB 2; Length 146;
Best Local Similarity 42.4%; Pred. No. 2.9e-18;
Matches 53; Conservative 20; Mismatches 43; Indels 9; Gaps 5

QY 3 ECPGSMSTDRCYCPKFOEMTWASAEKPCSOAQKGHILSYETLLEASFVDNVLANK 62
DB 24 DCPSSWSSYEGHCYKPFDEPKTMAAEKFCITQOHGSHLASHSBEEDFV--VTLTTPS 81
QY 63 YLTRYIWIQLR-VON----KGQPCSSISYENLVDPFECFMYSRDRLRLAEWFKVDCQOHS 117
DB 82 LKTDLVWVIGLKNINMGCYWKKMSDGRKLDYKDWREQEFC-LYSR-LYNNEMLSMDGTTCS 139
QY 118 FICKE 122

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Db	140 FVCKF	144
RESULT	46	
Q71RP8		
ID	Q71RP8	PRELIMINARY;
AC	Q71RP8;	PRT;
DT	05-JUL-2004 (TREMBLrel. 27, Created)	148 AA.
DT	05-JUL-2004 (TREMBLrel. 27, Last sequence update)	
DT	05-JUL-2004 (TREMBLrel. 27, Last annotation update)	
DE	Stejsagreglin-A beta chain-3.	
OC	Trimeresurus stejsageri (Chinese green tree viper).	
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
OC	Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidea;	
OC	Viperidae; Crotalinae; Trimeresurus.	
CX	NCBI_TaxID=39682;	
RP	SEQUENCE FROM N.A.	
RP	TISSUE=Venom gland.	
RA	Lee W.-H., Liu H., Zhang Y.	
RL	Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.	
DR	EMBL; AF354927; AAC05169.1; -	
DR	GO; GO:0005529; F-sugar binding; IEA.	
DR	InterPro; IPR001304; Lectin_C.	
DR	InterPro; IPR003990; Pancreatic-ac.	
DR	Pfam; PF00059; Lectin_C; 1.	
DR	PRINTS; PRO1504; PNCREATITISAP.	
DR	SMART; SMO0034; CLECT; 1.	
DR	PROSITE; PS00615; C TYPE LECTIN_1; 1.	
DR	PROSITE; PS00641; C TYPE LECTIN_2; 1.	
SO	SEQUENCE	148 AA; _16966 MM; FBEC0046C3642524 CRC64;

Query Match	35.5%	Score 246.5	DB 2	Length 148
Best Local Similarity	39.7%	Pred. No. 4	8e-18	
Matches	50	Conservative	20	Mismatches 43; Indels 13; Gaps 4;

Qy	4	CPSGMSSTDYCYCKPFOEMTWSAERFCSEQAKGHLSEVETALBASFDVNLANKY	63
Db	27	CPGLGMSYDYLCYCVFQGEENMMTDAERFCTGEQHTGSHLVSPHSSEADFPVNMTPYLK	85
Qy	64	LTRYITWIGLRYONKGPCCS-----ISYENLVDPCECFMWSRDTPLREMFKYDCEQH	116
Db	86	LDFVWVIGL--SNVMNCNSEWSDGTILNYKDWSESEC--IAKTIENOMWSRSCSRTH	140
Qy	117	SFICKF	122
Db	141	YVCKF	146

RESULT 47			
Q6T7B5			
Q6T7B5	PRELIMINARY;	PRT;	157 AA.
AC	Q6T7B5;		
DT	05-JUL-2004 (TREMBlrel. 27, Created)		
DT	05-JUL-2004 (TREMBlrel. 27, Last sequence update)		
DT	05-JUL-2004 (TREMBlrel. 27, Last annotation update)		
DE	C-type lectin-3.		
OS	Bitis gabonica (Gaboon adder) (Gaboon viper).		
OC	Eukaryota; Metazoa; Chordata; Craniota; Vertebrata; Euteleostomi;		
OC	Lepidodonta; Squamata; Scieroglossa; Serpentes; Colubroidae;		
OC	Viperidae; Viperinae; Bitis.		
OX	NCB1_Taxid:8694;		
NN	[1]		
RP	SEQUENCE FROM N.A.		
RC	TISSUE=Venom gland;		
RA	Frangischaeffli I.M.B., Pham V.M., Garfield M.K., Harrison J.,		
RA	Ribeiro J.M.C.;		
RL	Submitted (OCT-2003) to the EMBL/GenBank/DBJ databases.		
DR	EMBL; AY429479; AAR06853.1; -		
DR	GO: GO:0005529; F:sugar binding; IEA.		
DR	InterPro; IPR001304; Lectin_C.		
DR	InterPro; IPR003907; Pancreatins-ac.		
DR	Pfam; PF00059; Lectin_C; 1.		

DR InterPro; IPR001304; lectin_C.
DR InterPro; IPR003990; pancreatis_ac.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR01504; PNCREATITSAP.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
SQ SEQUENCE 148 AA; 16936 MW; E49BBCA03A0A53F CRC64;

Query Match 34.9%; Score 242.5; DB 2; Length 148;
Best Local Similarity 38.9%; Pred. No. 1,3e-17;
Matches 49; Conservative 20; Mismatches 44; Indels 13; Gaps 4;

QY	4	CPSGMSSTDRYCYKPKQKENTWASAEKFCSEQAKGHLISVETALDASFDVNTLVYANKY	63
DB	27	CPFGMSYDLYCYKVFQGMWTDAREKFTQHTGSHLVSFHSSEADFVNMVTYPILK	85
QY	64	LIRYTWIGLRVQKQPCPS-----ISYENLVDPFECFMSRDRRLREMFKVDCEQCH	116
DB	86	-LDFVWIGL--SNVMNQCNSEMSDGTGLDYKDWGSESEC--IASKTVENQMWTKSCSRTH	140
QY	117	SFICKP	122
DB	141	YVCKP	146

Search completed: May 2, 2005, 16:01:51
Job time : 71 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 2, 2005, 16:01:56 ; Search time 56 Seconds
(Without alignments)
749.489 Million cell updates/sec

Title: US-10-749-387-1

Perfect score: 695
Sequence: 1 DDECSGMSSTRVYCYKPKF.....WFAVDCEQHSFICKFTRPR 126

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1426032 seqs, 333106140 residues

Total number of hits satisfying chosen parameters: 1426032

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubppa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/1/pubppa/US09_PUBCOMB.pep:*
- 3: /cgn2_6/ptodata/1/pubppa/US06_PUBCOMB.pep:*
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- 9: /cgn2_6/ptodata/1/pubppa/US09_PUBCOMB.pep:*
- 10: /cgn2_6/ptodata/1/pubppa/US09_PUBCOMB.pep:*
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- 14: /cgn2_6/ptodata/1/pubppa/US10_PUBCOMB.pep:*
- 15: /cgn2_6/ptodata/1/pubppa/US10_PUBCOMB.pep:*
- 16: /cgn2_6/ptodata/1/pubppa/US10_PUBCOMB.pep:*
- 17: /cgn2_6/ptodata/1/pubppa/US10_PUBCOMB.pep:*
- 18: /cgn2_6/ptodata/1/pubppa/US11_PUBCOMB.pep:*
- 19: /cgn2_6/ptodata/1/pubppa/US60_PUBCOMB.pep:*
- 20: /cgn2_6/ptodata/1/pubppa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	695	100.0	126	9	US-09-969-763-1
2	695	100.0	126	16	US-10-749-387-1
3	684	98.4	149	9	US-09-969-763-3
4	684	98.4	149	16	US-10-749-387-3
5	542	78.0	110	9	US-09-969-763-10
6	542	78.0	110	16	US-10-749-387-10
7	361.5	52.0	158	9	US-09-929-230-11
8	361.5	52.0	158	14	US-10-749-387-11
9	316.5	45.5	144	9	US-09-929-230-8
10	316.5	45.5	144	14	US-10-749-387-8
11	314.5	45.3	152	9	US-09-929-230-5
12	314.5	45.3	152	14	US-10-749-387-5
13	271.5	39.1	129	10	US-09-938-114-2

ALIGNMENTS

14	184.5	26.5	151	9	US-09-929-230-2	Sequence 2, Appl1
15	184.5	26.5	151	14	US-10-226-420-2	Sequence 2, Appl1
16	168	24.2	166	10	US-09-997-003-30	Sequence 30, Appl1
17	168	24.2	166	10	US-09-997-003-43	Sequence 43, Appl1
18	168	24.2	166	16	US-10-734-564-2	Sequence 2, Appl1
19	168	24.2	166	16	US-10-734-564-4	Sequence 4, Appl1
20	168	24.2	166	16	US-09-925-301-1182	Sequence 1182, Ap
21	164.5	23.7	174	9	US-10-028-248A-112	Sequence 112, App
22	164.5	23.7	175	15	US-10-107-782-112	Sequence 112, App
23	157.5	22.7	175	15	US-10-028-248A-111	Sequence 111, App
24	157.5	22.7	175	15	US-10-107-782-111	Sequence 111, App
25	154.5	22.2	175	15	US-10-028-248A-110	Sequence 110, App
26	154.5	22.2	175	15	US-10-107-782-110	Sequence 110, App
27	153.5	22.1	175	14	US-10-316-761-3	Sequence 3, Appl1
28	153.5	22.1	175	15	US-10-434-906-1	Sequence 1, Appl1
29	153.5	22.1	175	15	US-10-028-248A-109	Sequence 109, App
30	153.5	22.1	175	15	US-10-107-782-109	Sequence 109, App
31	153.5	22.1	183	9	US-09-925-301-1013	Sequence 1013, Ap
32	148.5	21.4	175	9	US-09-978-295A-452	Sequence 452, App
33	148.5	21.4	175	9	US-09-978-697-452	Sequence 452, App
34	148.5	21.4	175	9	US-09-978-192A-452	Sequence 452, App
35	148.5	21.4	175	9	US-09-999-832A-452	Sequence 452, App
36	148.5	21.4	175	10	US-09-978-189-452	Sequence 452, App
37	148.5	21.4	175	10	US-09-978-608A-452	Sequence 452, App
38	148.5	21.4	175	10	US-09-978-585A-452	Sequence 452, App
39	148.5	21.4	175	10	US-09-978-191A-452	Sequence 452, App
40	148.5	21.4	175	10	US-09-978-403A-452	Sequence 452, App
41	148.5	21.4	175	10	US-09-978-564A-452	Sequence 452, App
42	148.5	21.4	175	10	US-09-999-832A-452	Sequence 452, App
43	148.5	21.4	175	10	US-09-981-915A-452	Sequence 452, App
44	148.5	21.4	175	10	US-09-978-824-452	Sequence 452, App
45	148.5	21.4	175	10	US-09-918-585A-452	Sequence 452, App
46	148.5	21.4	175	10	US-09-999-832A-452	Sequence 452, App
47	148.5	21.4	175	10	US-09-978-423A-452	Sequence 452, App
48	148.5	21.4	175	10	US-09-978-193A-452	Sequence 452, App
49	148.5	21.4	175	10	US-09-999-830A-452	Sequence 452, App
50	148.5	21.4	175	10	US-09-978-757A-452	Sequence 452, App
51	148.5	21.4	175	10	US-09-978-187B-452	Sequence 452, App
52	148.5	21.4	175	10	US-09-978-643A-452	Sequence 452, App
53	148.5	21.4	175	10	US-09-978-378A-452	Sequence 452, App
54	148.5	21.4	175	10	US-09-978-236A-452	Sequence 452, App
55	148.5	21.4	175	10	US-09-978-188A-452	Sequence 452, App
56	148.5	21.4	175	10	US-09-978-681A-452	Sequence 452, App
57	148.5	21.4	175	10	US-09-978-194A-452	Sequence 452, App
58	148.5	21.4	175	10	US-09-999-829A-452	Sequence 452, App
59	148.5	21.4	175	10	US-09-978-299A-452	Sequence 452, App
60	148.5	21.4	175	10	US-09-978-549A-452	Sequence 452, App
61	148.5	21.4	175	10	US-09-978-662A-452	Sequence 452, App
62	148.5	21.4	175	10	US-09-978-602A-452	Sequence 452, App
63	148.5	21.4	175	11	US-09-999-831A-452	Sequence 452, App
64	148.5	21.4	175	13	US-10-052-586-424	Sequence 424, App
65	148.5	21.4	175	14	US-10-174-590-424	Sequence 424, App

RESULT 1
US-09-969-763-1
; Sequence 1, Application US/09969763
; Publication No. US20020198363A1
; GENERAL INFORMATION:
; APPLICANT: FUKUCHI, NAOYUKI
; APPLICANT: KITTO, MORITAZU
; APPLICANT: KAWAHARA, TAKASHI
; APPLICANT: FUTAKI, FUMIE
; APPLICANT: ISHIKAWA, KOIKI
; APPLICANT: SUZUKI, EIICHIRO
; APPLICANT: GONDOH, KEIYO
; APPLICANT: SHIMBA, NOBUKISA
; APPLICANT: YAMADA, NAOYUKI
; TITLE OF INVENTION: PROTEIN HAVING ANTITHROMBOTIC ACTIVITY AND METHOD FOR PRODUCING TI
; FILE REFERENCE: 214760US0

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?
?
? ORGANISM: Crotalus horridus
? US-09-969-763-1
?
? CURRENT APPLICATION NUMBER: US/09/969,763
? CURRENT FILING DATE: 2000-10-25
? PRIOR APPLICATION NUMBER: JP 2000-305279
? PRIOR FILING DATE: 2000-10-04
? NUMBER OF SEQ ID NOS: 50
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 1
? LENGTH: 126
? TYPE: PRT
? ORGANISM: Crotalus horridus
? US-09-969-763-1
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Query Match	100.0%;	Score 695;	DB 9;	Length 126;
Best Local Similarity	100.0%;	Pred. No. 3.2e-72;		
Matches 126;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Dp

Qy

1 DLECSGMSSTRXCYPKQEMTWSAERFCSEGAQGHLISVETALEASFDVNLYAN 60

1 DLECPGSWSTDRYCYPKQEMTWSAERFCSEGAQGHLISVETALEASFDVNLYAN 60

QY 61 KEYLTRYIMGLRVQNGKGPSSISYENLVDPFECFVMSRDTRLREMFKVDEQGHSPIC 120

Dp 61 KEYLTRYIMGLRVQNGKGPSSISYENLVDPFECFVMSRDTRLREMFKVDEQGHSPIC 120

QY	121	KFTPR	126
Db	121	KFTPR	126

RESULT 2
US-10-749-387-1

/ Sequence 1, Application US/10/749387
 / Publication No. US20040161822A1
 / GENERAL INFORMATION:
 / APPLICANT: FUKUCHI, NAoyUKI
 / APPLICANT: KITO, MORIKAZU
 / APPLICANT: KAYAHARA, TAKASHI
 / APPLICANT: FUTAKI, FUMIE
 / APPLICANT: ISHIKAWA, KOHKI
 / APPLICANT: SUZUKI, EIICHIRO
 / APPLICANT: GONDOH, KEIKO
 / APPLICANT: SHIMEA, NOBUHISA
 / APPLICANT: YAMADA, NAoyUKI
 / TITLE OF INVENTION: PROTEIN HAVING ANTITHROMBOTIC ACTIVITY AND METHOD FOR PRODUCING 1
 / FILE REFERENCE: 214760US0
 / CURRENT APPLICATION NUMBER: US/10/749,387
 / CURRENT FILING DATE: 2004-01-02
 / PRIOR APPLICATION NUMBER: US/09/969,763
 / PRIOR FILING DATE: 2000-10-25
 / PRIOR APPLICATION NUMBER: JP 2000-305279
 / PRIOR FILING DATE: 2000-10-04
 / NUMBER OF SEQ ID NOS: 50
 / SOFTWARE: PatentIn version 3.1
 / SEQ ID NO 1
 / LENGTH: 126
 / TYPE: PRT
 / ORGANISM: Crocallys horridus
 / US-10-749-387-1

Query Match	100.0%;	Score 695;	DB 16;	Length 126;
Best Local Similarity	100.0%;	Pred. No. 3.2e-72;		
Matches 126;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

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Dd 1 DLDEPQSGWSTDRYCYKPFKQEMTWASAEKRFCEQAKGHHLSVETALAEAFVNDVLYAN 60

Dy 61 KEYLTRYIMIGLRVONKGPSSISYENLVDPFECFVWSRDTPLREMPKVDCEQOHSFIC 120

Db 61 KEYLTRYINIGLRVONKGPCESSISIENTVDPPECFVWSRDLRLRENFKVDCEQHSFIC 120

Qy 121 KFTPR 126

Db	121	KFTRPR	126
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RESULT 3
US-09-969-763-3
Classification: UNCLASSIFIED

Sequence 3, Application US70955763
Publication No. US20020198363A1
GENERAL INFORMATION:
APPLICANT: FUKUCHI, NAUYUKI
APPLICANT: KITO, MORIKAZU
APPLICANT: KAWAHARA, TAKASHI
APPLICANT: FUTAKI, FUMIE
APPLICANT: ISHIKAWA, KOHI
APPLICANT: SUZUKI, EIICHIRO
APPLICANT: GONDOH, KEIICHI
APPLICANT: SHIMBA, NOBUHISA

FILE REFERENCE: 214760USO
INVENTOR: ABRAHAMSON, WILLIAM. USC/NO/0650 763

;; CURRENT FILING DATE: 2000-10-25
;; PRIOR APPLICATION NUMBER: JP 2000-305279
;; PRIOR FILING DATE: 2000-10-04
ATTORNEY OR CPO TO WHOM
CORRESPONDENCE SHOULD BE SENT

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; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 3  
; LENGTH: 149
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US-09-969-763-3

Best Local Similarity 98.4%; Pred. No. 7.4e-71;
Matches 124; Conservative 0; Mismatches 2; Indels 0; Gaps 0

DQY
I DLEPPSGMSTDRYCYPFKQEMTWASAEFCSGQAGGHLSVETALEASFDVNLYAN 60

DB
24 DLECPSGMSYDRCYCFKQEMTWADAERFCSEGAAGHLSVETALEASFVDNLYAN 83

QY 61 KEYLTRYIIGLRVONKGCSSISENLVDPFECMVSRTRLREHFKVDDEQGHSTIC 120Q

DB 84 KEYLTRYIIGLRVONKGCSSISENLVDPFECMVSRTRLREHFKVDDEQGHSTIC 143Q

QY	121	KFTPR	126
Db	144	KFTPR	149

RESULT 4
US-10-749-387-3

Sequence 3, Application US/10749387
Publication No. US20040161822A1
GENERAL INFORMATION:
APPLICANT: FUKUCHI, NAoyUKI
APPLICANT: KITo, MORIKAZU
APPLICANT: KAWAHARA, TAKASHI
APPLICANT: FUTOAKI, FUMIE
APPLICANT: ISHIKAWA, KOHIRO
APPLICANT: SUZUKI, EIICHIRO
APPLICANT: GONDOH, KEIKO
APPLICANT: SHIMA, NOBUHISA
APPLICANT: YAMADA, NAoyUKI
TITLE OF INVENTION: PROTEIN HAVING ANTITHROMBOTIC ACTIVITY AND METHOD FOR PRODUCING THE SAME
FILE REFERENCE: 214760USO 10/161740 2002

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; CURRENT FILING DATE: 2004-01-02
; PRIOR APPLICATION NUMBER: US/09/969,763
; PRIOR FILING DATE: 2000-10-25
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; PRIOR FILING DATE: 2000-10-04
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: PatentIn version 3.1

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; SOFTWARE: Patentin version 3.1
; SEQ ID NO 3

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LENGTH: 149
TYPE: PRT
ORGANISM: Crocalus harridus
US-10-749-387-3

Query Match 98.4%; Score 684; DB 16; Length 149;
Best Local Similarity 98.4%; Pred. No. 7.4e-71;
Matches 124; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DLECPGMSSTRYCYKPKPKQEMTWASARFCSQAKGHLISVETALASFDVNLVYAN 60
DB 24 DLECPGMSSTRYCYKPKPKQEMTWADARFCSQAKGHLISVETALASFDVNLVYAN 83
QY 61 KEYLTRYIWIIGLRVQKQGPCSSISYENLVDPFECFMSRDTLRLEMFVDCQOHSFIC 120
DB 84 KEYLTRYIWIIGLRVQKQGPCSSISYENLVDPFECFMSRDTLRLEMFVDCQOHSFIC 143
QY 121 KETRR 126
DB 144 KETRR 149

RESULT 5
US-09-969-763-10
Sequence 10, Application US/09969763
Publication No. US20020198363A1

GENERAL INFORMATION:
APPLICANT: FUKUCHI, NAOYUKI
APPLICANT: KITO, MORIKAZU
APPLICANT: KAYAHARA, TAKASHI
APPLICANT: PUTAKI, FUMIE
APPLICANT: ISHIKAWA, KOIKI
APPLICANT: SUZUKI, EIICHIRO
APPLICANT: GONDOH, KEIKO
APPLICANT: SHIMBA, NOBUHISA
APPLICANT: YAMADA, NAOYUKI
TITLE OF INVENTION: PROTEIN HAVING ANTITHROMBOTIC ACTIVITY AND METHOD FOR PRODUCING T
FILE REFERENCE: 214760USO
CURRENT APPLICATION NUMBER: US/09/969,763
PRIOR FILING DATE: 2000-10-25
PRIOR APPLICATION NUMBER: JP 2000-305279
NUMBER OF SEQ ID NOS: 50
SOFTWARE: Patent version 3.1
SEQ ID NO 10
LENGTH: 110
TYPE: PRT
ORGANISM: ARTIFICIAL SEQUENCE
FEATURE:
OTHER INFORMATION: SYNTHETIC PEPTIDE
US-09-969-763-10

Query Match 78.0%; Score 542; DB 9; Length 110;
Best Local Similarity 81.7%; Pred. No. 1.3e-54;
Matches 103; Conservative 1; Mismatches 6; Indels 16; Gaps 1;

QY 1 DLECPGMSSTRYCYKPKPKQEMTWASARFCSQAKGHLISVETALASFDVNLVYAN 60
DB 1 DLECPGMSSTRYCYKPKPKQEMTWADARFCSQAKGHLISVETALASFDVNLVYAN 60
QY 61 KEYLTRYIWIIGLRVQKQGPCSSISYENLVDPFECFMSRDTLRLEMFVDCQOHSFIC 120
DB 61 KEYLTRYIWIIGLRVQKQGPCSSISYENLVDPFECFMSRDTLRLEMFVDCQOHSFIC 104
QY 121 KETRR 126
DB 105 KETRR 110

RESULT 6
US-10-749-387-10
Sequence 10, Application US/10749387
Publication No. US20040161822A1

GENERAL INFORMATION:
APPLICANT: FUKUCHI, NAOYUKI
APPLICANT: KITO, MORIKAZU
APPLICANT: KAYAHARA, TAKASHI
APPLICANT: PUTAKI, FUMIE
APPLICANT: ISHIKAWA, KOIKI
APPLICANT: SUZUKI, EIICHIRO
APPLICANT: GONDOH, KEIKO
APPLICANT: SHIMBA, NOBUHISA
APPLICANT: YAMADA, NAOYUKI
TITLE OF INVENTION: PROTEIN HAVING ANTITHROMBOTIC ACTIVITY AND METHOD FOR PRODUCING T
FILE REFERENCE: 214760USO
CURRENT APPLICATION NUMBER: US/10/749,387
PRIOR FILING DATE: 2004-01-02
PRIOR APPLICATION NUMBER: US/09/969,763
PRIOR FILING DATE: 2000-10-25
PRIOR APPLICATION NUMBER: JP 2000-305279
NUMBER OF SEQ ID NOS: 50
SOFTWARE: Patent version 3.1
SEQ ID NO 10
LENGTH: 110
TYPE: PRT
ORGANISM: ARTIFICIAL SEQUENCE
FEATURE:
OTHER INFORMATION: SYNTHETIC PEPTIDE
US-10-749-387-10

Query Match 78.0%; Score 542; DB 16; Length 110;
Best Local Similarity 81.7%; Pred. No. 1.3e-54;
Matches 103; Conservative 1; Mismatches 6; Indels 16; Gaps 1;

QY 1 DLECPGMSSTRYCYKPKPKQEMTWASARFCSQAKGHLISVETALASFDVNLVYAN 60
DB 1 DLECPGMSSTRYCYKPKPKQEMTWADARFCSQAKGHLISVETALASFDVNLVYAN 60
QY 61 KEYLTRYIWIIGLRVQKQGPCSSISYENLVDPFECFMSRDTLRLEMFVDCQOHSFIC 120
DB 61 KEYLTRYIWIIGLRVQKQGPCSSISYENLVDPFECFMSRDTLRLEMFVDCQOHSFIC 104
QY 121 KETRR 126
DB 105 KETRR 110

RESULT 7
US-09-929-230-11

Sequence 11, Application US/09929230
Patent No. US20020161203A1

GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
APPLICANT: Bishop, Paul D.
TITLE OF INVENTION: RATTLESNAKE VENOM GLAND PROTEINS
FILE REFERENCE: 00-72
CURRENT APPLICATION NUMBER: US/09/929,230
PRIOR FILING DATE: 2001-08-13
NUMBER OF SEQ ID NOS: 14
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 11
LENGTH: 158
TYPE: PRT
ORGANISM: Sistrurus miliarius
US-09-929-230-11

Query Match 52.0%; Score 361.5; DB 9; Length 158;
Best Local Similarity 50.4%; Pred. No. 1.6e-33;
Matches 66; Conservative 21; Mismatches 35; Indels 9; Gaps 2;

QY 1 DLECPGMSSTRYCYKPKPKQEMTWASARFCSQAKGHLISVETALASFDVNLVYAN 60
DB 24 DLECPGMSSTRYCYKPKPKQEMTWADARFCSQAKGHLISVETALASFDVNLVYAN 83
QY 61 KEYLTRYIWIIGLRVQKQGPCSSISYENLVDPFECFMSRDTLRLEMFVDCQOHSFIC 111

Db 90 ESGTDDFNWIGLHDPKRRMWSGSLVSYKSMGICAPSSVNPQYCVSLTSTGTFORK 149
Qy 108 FKVDCEQHSFICKF 122
Db 150 KDVPCEDKFSFVCKF 164

RESULT 19

US-10-734-564-4
; Sequence 4, Application US/10734564
; Publication No. US20040157278A1
; GENERAL INFORMATION:
; APPLICANT: Christopher C Burgess et al
; TITLE OF INVENTION: Detection Methods Using TIMP1
; FILE REFERENCE: 1657/2012
; CURRENT APPLICATION NUMBER: US/10/734,564
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-734-564-4

Query Match 24.2%; Score 168; DB 16; Length 166;
Best Local Similarity 31.1%; Pred. No. 4.1e-11;
Matches 42; Conservative 25; Mismatches 50; Indels 18; Gaps 5;

Qy 2 LKCPGMSSTDRCYKPFQKQMTWASAEFCSQAKGHLISVETALASFDVNLVYANK 61
Db 34 ISCPGNTNVRSCYCFNEDRETWDADLYC-QNNMSGNLVSLTQAEQAFVASLI---K 89
Qy 62 EYLTR--YIWIGLRVONKQO-----PCSSISYE-----NLVDPCECFMWSRDTLRK 107
Db 90 ESGTDDFNWIGLHDPKRRMWSGSLVSYKSMGICAPSSVNPQYCVSLTSTGTFORK 149
Qy 108 FKVDCEQHSFICKF 122
Db 150 KDVPCEDKFSFVCKF 164

RESULT 20

US-09-925-301-1182
; Sequence 1182, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1182
; LENGTH: 174
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-301-1182

Query Match 24.2%; Score 168; DB 9; Length 174;
Best Local Similarity 31.1%; Pred. No. 4.4e-11;
Matches 42; Conservative 25; Mismatches 50; Indels 18; Gaps 5;

Qy 2 LKCPGMSSTDRCYKPFQKQMTWASAEFCSQAKGHLISVETALASFDVNLVYANK 61
Db 42 ISCPGNTNVRSCYCFNEDRETWDADLYC-QNNMSGNLVSLTQAEQAFVASLI---K 97

Qy 62 EYLTR--YIWIGLRVONKQO-----PCSSISYE-----NLVDPCECFMWSRDTLRK 107
Db 98 ESGTDDFNWIGLHDPKRRMWSGSLVSYKSMGICAPSSVNPQYCVSLTSTGTFORK 157
Qy 108 FKVDCEQHSFICKF 122
Db 158 KDVPCEDKFSFVCKF 172

RESULT 21

US-10-028-248A-112
; Sequence 112, Application US/10028248A
; Publication No. US20030235882A1
; GENERAL INFORMATION:
; APPLICANT: Shimkets, Richard
; APPLICANT: Paturajan, Meera
; APPLICANT: Vernet, Corine
; APPLICANT: Casman, Stacie
; APPLICANT: Malyankar, Urfel
; APPLICANT: Shenoy, Suresh
; APPLICANT: Spytek, Kimberly
; APPLICANT: Gangoli, Rsha
; APPLICANT: Miller, Charles
; APPLICANT: Boldog, Ferenc
; APPLICANT: Li, Li
; APPLICANT: Taupier Jr, Raymond J
; APPLICANT: Kerkuda, Ramesh
; APPLICANT: Smithson, Glenda
; APPLICANT: Zerkhusen, Bryan
; APPLICANT: Liu, Xiaohong
; APPLICANT: Coleman, Steven
; APPLICANT: Tchernev, Velizar
; APPLICANT: Si, Jingsheng
; APPLICANT: Edinger, Shlomit
; APPLICANT: Stone, David
; APPLICANT: Sciore, Paul
; APPLICANT: Millet, Isabelle
; APPLICANT: Rothenberg, Mark
; TITLE OF INVENTION: No. US20030235882A1el Nucleic Acids and Polypeptides and Methods
; FILE REFERENCE: Thereof
; FILE REFERENCE: 21402-222
; CURRENT APPLICATION NUMBER: US/10/028,248A
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/256619
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/262959
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 60/272408
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/285189
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/308039
; PRIOR FILING DATE: 2001-07-26
; PRIOR APPLICATION NUMBER: 60/311266
; PRIOR FILING DATE: 2001-08-09
; NUMBER OF SEQ ID NOS: 211
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 112
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-028-248A-112

Query Match 23.7%; Score 164.5; DB 15; Length 175;
Best Local Similarity 30.0%; Pred. No. 1.1e-10;
Matches 42; Conservative 20; Mismatches 57; Indels 21; Gaps 4;

Qy 2 LKCPGMSSTDRCYKPFQKQMTWASAEFCSQAKGHLISVETALASFDVNLVYANK 60
Db 38 ISCPGMSQYGYCYTALFIPOTWFDALAC-QKRPGLHVSVLNSAEASFSSWVKRG 96
Qy 61 KEYLTRYIWIGLRVONKQOPCSSISYE-----NLVDPCECFMWSRDTLR 103

Db 97 NSY--QYTWIGLHPTLGAEPNGGWEWSNNDVMNYFNWERNPSTALDRACGSLSRASG 154
QY 104 LRFKXVDCQOHSFICKT 123
Db 155 FLKWRDMTCVXLPYVCKFT 174

RESULT 22
US-10-107-782-112

Sequence 112, Application US/10107782
Publication No. US2004001870A1
GENERAL INFORMATION:
APPLICANT: Boldog, Ferenc,
APPLICANT: Casman, Stacie
APPLICANT: Coleman, Steve,
APPLICANT: Edinger, Shlomlt,
APPLICANT: Gangolli, Bsha,
APPLICANT: Kekuda, Ramesh,
APPLICANT: Li, Li,
APPLICANT: Liu, Xiaohong,
APPLICANT: Malyankar, Uriel,
APPLICANT: Miller, Charles,
APPLICANT: Millet, Isabelle,
APPLICANT: Patnurajan, Meera,
APPLICANT: Rothenberg, Mark,
APPLICANT: Sciore, Paul,
APPLICANT: Shenoy, Suresh,
APPLICANT: Shimkets, Richard,
APPLICANT: Si, Jingsheng,
APPLICANT: Smithson, Glenda,
APPLICANT: Spytek, Kimberly,
APPLICANT: Stone, David,
APPLICANT: Taupier, Raymond, Jr.,
APPLICANT: Tchernev, Velizar,
APPLICANT: Vernet, Corine,
APPLICANT: Zerhusen, Brian
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES AND METHODS OF USE THEREOF
FILE REFERENCE: 21402-222CIP
CURRENT APPLICATION NUMBER: US/10/107,782
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: 10/028,248
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/256,619
PRIOR FILING DATE: 2000-12-19
PRIOR APPLICATION NUMBER: 60/262,959
PRIOR FILING DATE: 2001-01-19
PRIOR APPLICATION NUMBER: 60/272,408
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: 60/285,189
PRIOR FILING DATE: 2001-04-20
PRIOR APPLICATION NUMBER: 60/308,039
PRIOR FILING DATE: 2001-07-26
PRIOR APPLICATION NUMBER: 60/311,266
PRIOR FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 60/279,344
PRIOR FILING DATE: 2001-03-28
NUMBER OF SEQ ID NOS: 215
SOFTWARE: CuraSeqdist version 0.1
SEQ ID NO 112
LENGTH: 175
TYPE: PRT
ORGANISM: Homo sapiens
US-10-107-782-112

Query Match 22.7%; Score 164.5; DB 15; Length 175;
Best Local Similarity 30.0%; Pred. No. 1,1e-10;
Matches 42; Conservative 20; Mismatches 57; Indels 21; Gaps 4;

QY 2 LBCPSGWSSTDRYCYKPFKQEMTWASAEKFCSEQAKGHLISVETALASFPVDN-VLYAN 60
Db 38 ISCPKSGQAGSYCYALFQIPQTFPDAELAC-QKRPBGHLVSVLNGASAFSLSMVARTG 96
QY 61 KEYLTRYIWTGLRVQNKGPCSSISYE-----NLVDPECFEWSRDTR 103

Db 97 NSY--QYTWIGLHPTLGAEPNGGWEWSNNDVMNYFNWERNPSTALDRACGSLSRASG 154
QY 104 LRFKXVDCQOHSFICKT 123
Db 155 FLKWRDMTCVXLPYVCKFT 174

RESULT 23
US-10-028-248A-111

Sequence 111, Application US/10028248A
Publication No. US20030235882A1
GENERAL INFORMATION:
APPLICANT: Shimkets, Richard
APPLICANT: Patnurajan, Meera
APPLICANT: Vernet, Corine
APPLICANT: Casman, Stacie
APPLICANT: Malyankar, Uriel
APPLICANT: Shenoy, Suresh
APPLICANT: Spytek, Kimberly
APPLICANT: Gangolli, Bsha
APPLICANT: Miller, Charles
APPLICANT: Boldog, Ferenc
APPLICANT: Li, Li
APPLICANT: Taupier Jr, Raymond J
APPLICANT: Kekuda, Ramesh
APPLICANT: Smithson, Glenda
APPLICANT: Zerhusen, Bryan
APPLICANT: Liu, Xiaohong
APPLICANT: Coleman, Steven
APPLICANT: Tchernev, Velizar
APPLICANT: Si, Jingsheng
APPLICANT: Edinger, Shlomlt
APPLICANT: Stone, David
APPLICANT: Sciore, Paul
APPLICANT: Millet, Isabelle
APPLICANT: Rothenberg, Mark
TITLE OF INVENTION: No. US20030235882A1el Nucleic Acids and Polypeptides and Methods of
FILE REFERENCE: 21402-222
CURRENT APPLICATION NUMBER: US/10/028,248A
CURRENT FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/256,619
PRIOR FILING DATE: 2000-12-19
PRIOR APPLICATION NUMBER: 60/262,959
PRIOR FILING DATE: 2001-01-19
PRIOR APPLICATION NUMBER: 60/272,408
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: 60/285,189
PRIOR FILING DATE: 2001-04-20
PRIOR APPLICATION NUMBER: 60/308,039
PRIOR FILING DATE: 2001-07-26
PRIOR APPLICATION NUMBER: 60/311,266
PRIOR FILING DATE: 2001-08-09
NUMBER OF SEQ ID NOS: 211
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 111
LENGTH: 175
TYPE: PRT
ORGANISM: Rattus norvegicus
US-10-028-248A-111

Query Match 22.7%; Score 157.5; DB 15; Length 175;
Best Local Similarity 30.2%; Pred. No. 7.2e-10;
Matches 42; Conservative 21; Mismatches 57; Indels 19; Gaps 5;

QY 2 LBCPSGWSSTDRYCYKPFKQEMTWASAEKFCSEQAKGHLISVETALASFPVDNVIYANK 61
Db 38 ISCPKSGQAGSYCYALFQIPQTFPDAELACQKRP-GHLVSVLNVAAEASFLASWV-KVT 95
QY 62 EYLTRYIWTGLRVQNKGPCSS-----ISYEN-----LVDPFECFWSRDTRL 104
Db 96 GNSYQYTWIGLHPTLGEPEBNGGWEWSNNDVMNYFNWERNPSTALDRACGSLSRSSGCF 155

QY 105 REMFKVDCQOHSFICKFT 123
DB 156 LRMWDTTCVKKLPYCKFT 174

RESULT 24

US-10-107-782-111
; Sequence 111, Application US/10107782
; Publication No. US20040018970A1
; GENERAL INFORMATION:
; APPLICANT: Boldog, Ferenc
; APPLICANT: Casman, Stacie
; APPLICANT: Coleman, Steve
; APPLICANT: Edinger, Shlomit
; APPLICANT: Gangolli, Beha
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Li, Li
; APPLICANT: Liu, Xiaohong
; APPLICANT: Malyankar, Uriel
; APPLICANT: Miller, Charles
; APPLICANT: Miller, Isabelle
; APPLICANT: Patuturajan, Meera
; APPLICANT: Rothenberg, Mark
; APPLICANT: Sciore, Paul
; APPLICANT: Shenoy, Suresh
; APPLICANT: Shinkets, Richard
; APPLICANT: Sl, Jingsheng
; APPLICANT: Smithson, Glenda
; APPLICANT: Spytek, Kimberly
; APPLICANT: Stone, David
; APPLICANT: Taupier, Raymond, Jr.
; APPLICANT: Tchernev, Velizar
; APPLICANT: Vernet, Corine
; APPLICANT: Zernusen, Brian
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES AND METHODS OF USE THEREOF
; FILE REFERENCE: 21402-222CIP
; CURRENT APPLICATION NUMBER: US/10/107,782
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: 10/028,248
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/256,619
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/262,959
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 60/272,408
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/285,189
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/308,039
; PRIOR FILING DATE: 2001-07-26
; PRIOR APPLICATION NUMBER: 60/311,266
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/279,344
; PRIOR FILING DATE: 2001-03-28
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: CuroSeqList version 0.1
; SEQ ID NO 111
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-107-782-111

Query Match 22.7%; Score 157.5; DB 15; Length 175;
Best Local Similarity 30.2%; Pred. No. 7.2e-10;
Matches 42; Conservative 21; Mismatches 57; Indels 19; Gaps 5;

QY 2 LBCPSGMSSTRDYCYRPFQEMTWASAEFCSEQAGHLSVETALASFYDNLVYANK 61
DB 38 ISCPKSGAIGSGCYVALFQIPQTFWDELACQKRP-GLHVSILNVAEASFLLSMV-KNT 95
QY 62 EYLTRYIWIQLRVON-KGQPCSS-----ISYEN-----LVDPFECFVNSRDTL 104

DB 96 GNSYQYTWIGLHDPITLGGEPNGGWEWSNNDIMNTYNNERNPSTALDRGFCGSLRSSGF 155
QY 105 REMFKVDCQOHSFICKFT 123
DB 156 LRMWDTTCVKKLPYCKFT 174

RESULT 25

US-10-028-248A-110
; Sequence 110, Application US/10028248A
; Publication No. US20030235882A1
; GENERAL INFORMATION:
; APPLICANT: Shinkets, Richard
; APPLICANT: Patuturajan, Meera
; APPLICANT: Vernet, Corine
; APPLICANT: Casman, Stacie
; APPLICANT: Malyankar, Uriel
; APPLICANT: Shenoy, Suresh
; APPLICANT: Spytek, Kimberly
; APPLICANT: Gangolli, Beha
; APPLICANT: Miller, Charles
; APPLICANT: Boldog, Ferenc
; APPLICANT: Li, Li
; APPLICANT: Taupier Jr, Raymond J
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Smithson, Glenda
; APPLICANT: Zernusen, Bryan
; APPLICANT: Liu, Xiaohong
; APPLICANT: Coleman, Steven
; APPLICANT: Tchernev, Velizar
; APPLICANT: Sl, Jingsheng
; APPLICANT: Edinger, Shlomit
; APPLICANT: Stone, David
; APPLICANT: Sciore, Paul
; APPLICANT: Miller, Isabelle
; APPLICANT: Rothenberg, Mark
; TITLE OF INVENTION: No. US20030235882A1 Nucleic Acids and Polypeptides and Methods of Use Thereof
; FILE REFERENCE: 21402-222
; CURRENT APPLICATION NUMBER: US/10/028,248A
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/256619
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/262959
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 60/272408
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/285189
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/308039
; PRIOR FILING DATE: 2001-07-26
; PRIOR APPLICATION NUMBER: 60/311266
; PRIOR FILING DATE: 2001-08-09
; NUMBER OF SEQ ID NOS: 211
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 110
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-028-248A-110

Query Match 22.2%; Score 154.5; DB 15; Length 175;
Best Local Similarity 30.2%; Pred. No. 1.6e-09;
Matches 42; Conservative 19; Mismatches 59; Indels 19; Gaps 4;

QY 2 LBCPSGMSSTRDYCYRPFQEMTWASAEFCSEQAGHLSVETALASFYDNLVYANK 61
DB 38 ISCPKSGMSVYRSHICFTPTPTWMDADIA-CQKPSGHLVSVLSGAESEFVAS-LVRNN 95
QY 62 EYLTRYIWIQLRVONKGQCCSSISYE-----NLV-----DPFECFVNSRDTL 104
DB 96 LNTQSDIWIQLHDPTEGSEANAGWEMISNDVILNVAWETDPAIASSFGYCSLSRSSGV 155

QY 105 REMFKVDCQOHSFICKT 123
DB 156 LKWRDHNCNLNLPYCKFT 174

RESULT 26

US-10-107-782-110
Sequence 110, Application US/10107782
Publication No. US20040018970A1
GENERAL INFORMATION:
APPLICANT: Boldog, Ferenc,
APPLICANT: Casman, Stacie
APPLICANT: Colman, Steve,
APPLICANT: Edinger, Shlomit,
APPLICANT: Gangoli, Esha,
APPLICANT: Kerkuda, Ramesh,
APPLICANT: Li, Li,
APPLICANT: Liu, Xiaohong,
APPLICANT: Malpankar, Uriel,
APPLICANT: Miller, Charles,
APPLICANT: Millet, Isabelle,
APPLICANT: Patursajan, Meera,
APPLICANT: Rothenberg, Mark,
APPLICANT: Sciore, Paul,
APPLICANT: Skenoy, Suresh,
APPLICANT: Shimkets, Richard,
APPLICANT: Si, Jingsheng,
APPLICANT: Smithson, Glenda,
APPLICANT: Spytek, Kimberly,
APPLICANT: Stone, David,
APPLICANT: Taupier, Raymond, Jr.,
APPLICANT: Tchernyev, Vellizar,
APPLICANT: Vermet, Corine,
APPLICANT: Zernhusen, Brian
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES AND METHODS OF USE THEREOF
FILE REFERENCE: 21402-222CIP
CURRENT APPLICATION NUMBER: US/10/107,782
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: 10/028,248
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/256,619
PRIOR FILING DATE: 2000-12-19
PRIOR APPLICATION NUMBER: 60/262,959
PRIOR FILING DATE: 2001-01-19
PRIOR APPLICATION NUMBER: 60/272,408
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: 60/285,189
PRIOR FILING DATE: 2001-04-20
PRIOR APPLICATION NUMBER: 60/308,039
PRIOR FILING DATE: 2001-07-26
PRIOR APPLICATION NUMBER: 60/311,266
PRIOR FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 60/279,344
PRIOR FILING DATE: 2001-03-28
NUMBER OF SEQ ID NOS: 215
SOFTWARE: Cureseqdist version 0.1
SEQ ID NO 110
LENGTH: 175
TYPE: PRT
ORGANISM: Homo sapiens
US-10-107-782-110

Query Match 22.2%; Score 154.5; DB 15; Length 175;
Best Local Similarity 30.2%; Pred. No. 1.6e-09;
Matches 42; Conservative 19; Mismatches 59; Indels 19; Gaps 4;

QY 2 LBCPSGMSSTDRYCYKPFQEMTWASAEFCSEQAKGHLISVETALASFYDNLVLYANK 61
DB 38 ISCPSSGSMAYRSHCYALFPTKTMADADLAC-QKPSGHLVSVLSGAESEFVAS-LVRNN 95
QY 62 EYLTIRYIMIGLRYONKGPCCSSISYE-----NLV-----DPFECFVMSRDTPL 104
DB 96 LNTQSDIWIGLHDPTEGSEANAGWEMISNDVINYAMETDPAIISPGCSLSRSSGY 155

QY 105 REMFKVDCQOHSFICKT 123
DB 156 LKWRDHNCNLNLPYCKFT 174

RESULT 27

US-10-316-761-3
Sequence 3, Application US/10316761
Publication No. US20030109004A1
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Goll, Surya K.
TITLE OF INVENTION: NOVEL HUMAN PANCREATITIS-ASSOCIATED PROTEIN
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Potter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/316,761
FILING DATE: 10-Dec-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/822,261
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0251 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 175 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: Genbank
CLONE: 262369
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-316-761-3

Query Match 22.1%; Score 153.5; DB 14; Length 175;
Best Local Similarity 25.7%; Pred. No. 2.1e-09;
Matches 36; Conservative 24; Mismatches 59; Indels 21; Gaps 4;

QY 2 LBCPSGMSSTDRYCYKPFQEMTWASAEFCSEQAKGHLISVETALASFYDNLVLYA-N 60
DB 38 IRCPKSRAYVSHCYALFSPKSTWDADLAC-QKPSGHLVSVLSGAESEFVASLTKSIG 96
QY 61 KEYLTRYIMIGLRYONKGPCCSSISYE-----NLVDPFECFVMSRDTPL 103
DB 97 NSY--SYVIMIGLHDPTEGSEANAGWEMISNDVINYAMETDPAIISPGCSLSRSSGY 154
QY 104 LREMKVDCQOHSFICKT 123
DB 155 FLRMQVNCNVRLPYCKFT 174

RESULT 28
US-10-434-906-1

Sequence 1, Application US/10434906
Publication No. US2003022000A1
GENERAL INFORMATION:
APPLICANT: William P. Van Antwerp
TITLE OF INVENTION: IMMUNOPROTECTIVE METHODS FOR BETA CELL
FILE REFERENCE: 130.59-US-01
CURRENT APPLICATION NUMBER: US/10/434,906
CURRENT FILING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: 60/379,202
PRIOR FILING DATE: 2002-05-09
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FaetSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 175
TYPE: PRT
ORGANISM: Homo Sapiens
US-10-434-906-1

Query Match 22.1%; Score 153.5; DB 15; Length 175;
Best Local Similarity 25.7%; Pred. No. 2.1e-09;
Matches 36; Conservative 24; Mismatches 59; Indels 21; Gaps 4;

QY 2 LBCPSGMSSTDRCYCPKQEMTWASAEKFCSEQAKGHLSTALASFDVNLTA-N 60
DB 38 IRCPKSKAYGSHCYALFLSPKSWTDADLAC-OKRPSGNLVSLGAEKGSFVSLVKSIG 96
QY 61 KEVLTIVIMIGLRVQNKGGPCSSISYE-----NLVDPCECFMVRDTR 103
DB 97 NSY--SYWIGLHDPQTEPNEGEGWESSSDVMYFAMERNPSTISSPGHCASLSRSTA 154
QY 104 LREWFVDCQCHSFICKFT 123
DB 155 FLRMKDYNQNVRLPYVCKFT 174

RESULT 29

US-10-028-248A-109
Sequence 109, Application US/10028248A
Publication No. US20030235882A1
GENERAL INFORMATION:
APPLICANT: Shimkets, Richard
APPLICANT: Paturajan, Meera
APPLICANT: Vernet, Corine
APPLICANT: Casman, Stacie
APPLICANT: Malyanar, Uriel
APPLICANT: Shenoy, Suresh
APPLICANT: Spytek, Kimberly
APPLICANT: Gangolli, Beha
APPLICANT: Miller, Charles
APPLICANT: Boldog, Ferenc
APPLICANT: Li, Li
APPLICANT: Taupier Jr, Raymond J
APPLICANT: Kekuda, Ramesh
APPLICANT: Smithson, Glenda
APPLICANT: Zerhusen, Bryan
APPLICANT: Liu, Xiaohong
APPLICANT: Coleman, Steven
APPLICANT: Tchertnev, Vellizar
APPLICANT: Si, Jingsheng
APPLICANT: Edinger, Shlomil
APPLICANT: Stone, David
APPLICANT: Sciore, Paul
APPLICANT: Miller, Isabelle
APPLICANT: Rothenberg, Mark
TITLE OF INVENTION: Theroef
FILE REFERENCE: 21402-222
CURRENT APPLICATION NUMBER: US/10/028,248A
CURRENT FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/256619
PRIOR FILING DATE: 2000-12-19
PRIOR APPLICATION NUMBER: 60/262959

PRIOR FILING DATE: 2001-01-19
PRIOR APPLICATION NUMBER: 60/272408
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: 60/285189
PRIOR FILING DATE: 2001-04-20
PRIOR APPLICATION NUMBER: 60/308039
PRIOR FILING DATE: 2001-07-26
PRIOR APPLICATION NUMBER: 60/311266
PRIOR FILING DATE: 2001-08-09
NUMBER OF SEQ ID NOS: 211
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 109
LENGTH: 175
TYPE: PRT
ORGANISM: Homo sapiens
US-10-028-248A-109

Query Match 22.1%; Score 153.5; DB 15; Length 175;
Best Local Similarity 25.7%; Pred. No. 2.1e-09;
Matches 36; Conservative 24; Mismatches 59; Indels 21; Gaps 4;

QY 2 LBCPSGMSSTDRCYCPKQEMTWASAEKFCSEQAKGHLSTALASFDVNLTA-N 60
DB 38 IRCPKSKAYGSHCYALFLSPKSWTDADLAC-OKRPSGNLVSLGAEKGSFVSLVKSIG 96
QY 61 KEVLTIVIMIGLRVQNKGGPCSSISYE-----NLVDPCECFMVRDTR 103
DB 97 NSY--SYWIGLHDPQTEPNEGEGWESSSDVMYFAMERNPSTISSPGHCASLSRSTA 154
QY 104 LREWFVDCQCHSFICKFT 123
DB 155 FLRMKDYNQNVRLPYVCKFT 174

RESULT 30

US-10-107-782-109
Sequence 109, Application US/10107782
Publication No. US20040018970A1
GENERAL INFORMATION:
APPLICANT: Boldog, Ferenc
APPLICANT: Casman, Stacie
APPLICANT: Coleman, Steve
APPLICANT: Edinger, Shlomil
APPLICANT: Gangolli, Beha
APPLICANT: Kekuda, Ramesh
APPLICANT: Li, Li
APPLICANT: Liu, Xiaohong
APPLICANT: Malyanar, Uriel
APPLICANT: Miller, Charles
APPLICANT: Paturajan, Meera
APPLICANT: Rothenberg, Mark
APPLICANT: Sciore, Paul
APPLICANT: Shenoy, Suresh
APPLICANT: Shimkets, Richard
APPLICANT: Si, Jingsheng
APPLICANT: Smithson, Glenda
APPLICANT: Spytek, Kimberly
APPLICANT: Stone, David
APPLICANT: Taupier, Raymond, Jr.
APPLICANT: Tchertnev, Vellizar
APPLICANT: Vernet, Corine
APPLICANT: Zerhusen, Brian
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES AND METHODS OF USE THEREOF
FILE REFERENCE: 21402-222CIP
CURRENT APPLICATION NUMBER: US/10/107,782
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: 10/028,248
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/256,619
PRIOR FILING DATE: 2000-12-19
PRIOR APPLICATION NUMBER: 60/262,959
PRIOR FILING DATE: 2001-01-19

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; PRIOR APPLICATION NUMBER: 60/272,408
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/285,189
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/308,039
; PRIOR FILING DATE: 2001-07-26
; PRIOR APPLICATION NUMBER: 60/311,266
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/279,344
; PRIOR FILING DATE: 2001-03-28
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: CuroSeqList version 0.1
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; ORGANISM: Homo sapiens
; US-10-107-782-109

Query Match      22.1%; Score 153.5; DB 15; Length 175;
Best Local Similarity 25.7%; Pred. No. 2.1e-09;
Matches 36; Conservative 24; Mismatches 59; Indels 21; Gaps 4;
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DB 97 NSY--SYWIGLHDPGTGTEPNEGEWSSSDVMNFAMERNPSTISSGHGASLSRSTA 154
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; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
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DB 163 FLRMKDYNQCNVLLPYVCKFT 182
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RESULT 32
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; Patent No. US20020156006A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
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; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C11
; CURRENT APPLICATION NUMBER: US/09/978,295A
; PRIOR FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
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PRIOR APPLICATION NUMBER: 60/085697

Query Match 21.4%; Score 148.5; DB 9; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

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DB 38 ISCPKSKAYGSPCTALFLSPKSWMDADLAC-QKPSGKLVSIVLSGABGSFVSLVRSTIS 96
QY 61 KEYLTRYIMIGLRVQNGQPCSSISYE-----NLVDPPECFMVSRDTR 103
DB 97 NSY--SYIWIGLHDPQSGEPDGDGEMWSSTDVWNYFAMEKNPSTILNPGHCGSLSRSTG 154
QY 104 LREMFVYDCEQOHSFTCKF 122
DB 155 FLTKMDYNDACKLPIYCKF 173

RESULT 33
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Sequence 452, Application US/09978697
Patent No. US20020169284A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
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APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
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APPLICANT: Kijavitt, Ivar J.
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APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P127
CURRENT APPLICATION NUMBER: US/09/978, 697
CURRENT FILING DATE: 2001-10-16
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Query Match	21.4%	Score 148.5	DB 9	Length 175
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; Patent No. US20020177553A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
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; APPLICANT: Gao, Wei-Qiang
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PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 21.4%; Score 148.5; DB 9; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

QY 2 LECPSGMSSTRYCKPKQEMTASARFQSEAKGHLISVETALBASFDVNLVA-N 60
DB 38 ISCPKSGAYVSGPCALTLSPKSWMDADLAC-QKRPSSGLVSVLSGAGCSFVSSIVRSIS 96
QY 61 KEYLTRYIMIGLRVONKQPCSSISYE-----NLVDPFECFWMVSRDTR 103
DB 97 NSY--SYIMWIGLHDTQSGSEPDGDGDMWSSSDVNMVTFAMENKPSITILNPGHGSLSRSTG 154
QY 104 LREMFKVDCEQOHSFTCKF 122

DB : : : : :
155 FLKMDYNDACKLPYVCKF 173

RESULT 35
US-09-999-832A-452
Sequence 452, Application US/09999832A
Publication No. US20020192706A1
GENERAL INFORMATION:
APPLICANT: Aekhenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferreira, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Thomas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC63
CURRENT APPLICATION NUMBER: US/09/999, 832A
CURRENT FILING DATE: 2001-10-24
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
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PRIOR APPLICATION NUMBER: 60/065311
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PRIOR FILING DATE: 1998-03-25

PRIOR APPLICATION NUMBER: 60/079656
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Query Match 21.4%; Score 148.5; DB 9; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;
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QY 2 LECPSGMSSTDRCYCFEFGQEMTWSAERFCSEQAAGHLLSVETLLEASFVDNVIYA-N 60
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DB 38 ISCPSKSKYSGPCTALFLSPKSMWDADLAC-QKPSGKLVSLVSGABSSFWSLVRSIS 96
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QY 61 KEYLTRYIWIIGLRVONKGPCCSSISYE-----NLVDPFECFVMSRDTR 103
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QY 104 LREMFKVDCEQOHSPICKF 122
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DB 155 FLKMKDYNCDALPYCKF 173
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RESULT 36
US-09-978-189-452
; Sequence 452, Application US/09978189
; Publication No. US20030004102A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC7
; CURRENT APPLICATION NUMBER: US/09/978,189
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;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

Qy 2 LECPSGMSSTRDYCPFOEWMTASABRSCSEQAKGHLISVETALASFPVDNLVA-N 60
Db 38 ISCPKSKAYGSCYALFLSPKSKMDADLAC-QKRSGLTVSLVSGAESFPVSLVRSIS 96
Qy 61 KEYLTRYIWIGLRVONKGPCCSSISYE-----NIVDPFECFMSRDTR 103
Db 97 NSY--SYIWIGLHDPQSGSEPDGDGWEWSSTDVNMYFAWEKKNPSTILNPGCSLSRSTG 154

QY 104 LREMFVDCQOHSFICKF 122
: : : : :
Db 155 FLKMKDYNCDAKLPYICKF 173

RESULT 37

US-09-978-608A-452
; Sequence 452, Application US/09978608A
; Publication No. US20030045462A1
; GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC22
CURRENT APPLICATION NUMBER: US/09/978, 608A
CURRENT FILING DATE: 2001-10-16
NUMBER OF SEQ ID NOS: 624
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 452
LENGTH: 175
TYPE: PRT
ORGANISM: Homo sapiens
US-09-978-608A-452

Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

QY 2 LECPSGWSSTDRYCYKPFQEWMTWASAEFCEQAKGHLISVEFALBASFYDNLVYA-N 60
: : : : :
Db 38 ISCPKSGKAYGSPCYALFLSPKSWMDADLAC-QKRPSCGLVSVLSGAGSFFVSLVRSIS 96
: : : : :
QY 61 KEYLTRYTWIGLRVONKQPCSSISYE-----NLVDFECFVMSRDTR 103
: : : : :
Db 97 NSY--SYIWIIGHDPTQSGEPDGDGEMWSTDVNNYFAMEKNPSTILNPGHGSISRSTG 154
: : : : :
QY 104 LREMFVDCQOHSFICKF 122
: : : : :
Db 155 FLKMKDYNCDAKLPYICKF 173

RESULT 38
US-09-978-585A-452
; Sequence 452, Application US/09978585A
; Publication No. US20030049633A1
; GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC15
CURRENT APPLICATION NUMBER: US/09/978, 585A
CURRENT FILING DATE: 2001-10-16
NUMBER OF SEQ ID NOS: 624
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 452
LENGTH: 175
TYPE: PRT
ORGANISM: Homo sapiens
US-09-978-585A-452

Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

QY 2 LECPSGWSSTDRYCYKPFQEWMTWASAEFCEQAKGHLISVEFALBASFYDNLVYA-N 60
: : : : :
Db 38 ISCPKSGKAYGSPCYALFLSPKSWMDADLAC-QKRPSCGLVSVLSGAGSFFVSLVRSIS 96
: : : : :
QY 61 KEYLTRYTWIGLRVONKQPCSSISYE-----NLVDFECFVMSRDTR 103
: : : : :
Db 97 NSY--SYIWIIGHDPTQSGEPDGDGEMWSTDVNNYFAMEKNPSTILNPGHGSISRSTG 154
: : : : :
QY 104 LREMFVDCQOHSFICKF 122
: : : : :
Db 155 FLKMKDYNCDAKLPYICKF 173

RESULT 39
US-09-978-191A-452
; Sequence 452, Application US/09978191A
; Publication No. US20030050239A1
; GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopier
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C4
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31

PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366

Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09; Mismatches 57; Indels 21; Gaps 4;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

QY 2 IECPSGWSSTDRYCYKPFQCEMTWASABRFSCEQAKGHLSEVPTLEASFVDNYLYA-N 60
DB 38 ISCPKSGKAYGSPCYALFLSPKSMDDADLAC-QKRPSCGLVSLGABSGFVSSLVRSIS 96
QY 61 KEYLTRYTWIGLRVONKQGPCSSISYE-----NLVDFECFWMVRDTR 103
DB 97 NSY--SYIWIIGHDPQSGSEPDGDGEMWGSTDVWNYFAWEKNPSTILNHCSCGISLRSTG 154
QY 104 IREWFVDECEQGHSTCKF 122
DB 155 FLKMDVNCDAKLPIYCKF 173

RESULT 40
US-09-978-403A-452
; Sequence 452, Application US/09978403A
; Publication No. US20030050240A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerder, Hanspeter

APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630PIC17
CURRENT APPLICATION NUMBER: US/09/978,403A
CURRENT FILING DATE: 2002-03-19
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/07450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107

PRIOR FILING DATE:	1998-03-31
PRIOR APPLICATION NUMBER:	60/080165
PRIOR FILING DATE:	1998-03-31
PRIOR APPLICATION NUMBER:	60/080194
PRIOR FILING DATE:	1998-03-31
PRIOR APPLICATION NUMBER:	60/080377
PRIOR FILING DATE:	1998-04-01
PRIOR APPLICATION NUMBER:	60/080328
PRIOR FILING DATE:	1998-04-01
PRIOR APPLICATION NUMBER:	60/080333
PRIOR FILING DATE:	1998-04-01
PRIOR APPLICATION NUMBER:	60/080334
PRIOR FILING DATE:	1998-04-01
PRIOR APPLICATION NUMBER:	60/081070
PRIOR FILING DATE:	1998-04-08
PRIOR APPLICATION NUMBER:	60/081049
PRIOR FILING DATE:	1998-04-08
PRIOR APPLICATION NUMBER:	60/081071
PRIOR FILING DATE:	1998-04-08
PRIOR APPLICATION NUMBER:	60/081195
PRIOR FILING DATE:	1998-04-08
PRIOR APPLICATION NUMBER:	60/081203
PRIOR FILING DATE:	1998-04-09
PRIOR APPLICATION NUMBER:	60/081229
PRIOR FILING DATE:	1998-04-09
PRIOR APPLICATION NUMBER:	60/081955
PRIOR FILING DATE:	1998-04-15
PRIOR APPLICATION NUMBER:	60/081817
PRIOR FILING DATE:	1998-04-15
PRIOR APPLICATION NUMBER:	60/081838
PRIOR FILING DATE:	1998-04-15
PRIOR APPLICATION NUMBER:	60/082568
PRIOR FILING DATE:	1998-04-21
PRIOR APPLICATION NUMBER:	60/082569
PRIOR FILING DATE:	1998-04-21
PRIOR APPLICATION NUMBER:	60/082704
PRIOR FILING DATE:	1998-04-22
PRIOR APPLICATION NUMBER:	60/082804
PRIOR FILING DATE:	1998-04-22
PRIOR APPLICATION NUMBER:	60/082700
PRIOR FILING DATE:	1998-04-22
PRIOR APPLICATION NUMBER:	60/082797
PRIOR FILING DATE:	1998-04-22
PRIOR APPLICATION NUMBER:	60/082796
PRIOR FILING DATE:	1998-04-23
PRIOR APPLICATION NUMBER:	60/083336
PRIOR FILING DATE:	1998-04-27
PRIOR APPLICATION NUMBER:	60/083322
PRIOR FILING DATE:	1998-04-28
PRIOR APPLICATION NUMBER:	60/083392
PRIOR FILING DATE:	1998-04-29
PRIOR APPLICATION NUMBER:	60/083455
PRIOR FILING DATE:	1998-04-29
PRIOR APPLICATION NUMBER:	60/083466
PRIOR FILING DATE:	1998-04-29
PRIOR APPLICATION NUMBER:	60/083499
PRIOR FILING DATE:	1998-04-29
PRIOR APPLICATION NUMBER:	60/083545
PRIOR FILING DATE:	1998-04-29
PRIOR APPLICATION NUMBER:	60/083554
PRIOR FILING DATE:	1998-04-29
PRIOR APPLICATION NUMBER:	60/083558
PRIOR FILING DATE:	1998-04-29
PRIOR APPLICATION NUMBER:	60/083559
PRIOR FILING DATE:	1998-04-29
PRIOR APPLICATION NUMBER:	60/083500
PRIOR FILING DATE:	1998-04-29
PRIOR APPLICATION NUMBER:	60/083742
PRIOR FILING DATE:	1998-04-30

1	PRIOR APPLICATION NUMBER: 60/084366
2	PRIOR FILING DATE: 1998-05-05
3	PRIOR APPLICATION NUMBER: 60/084414
4	PRIOR FILING DATE: 1998-05-06
5	PRIOR APPLICATION NUMBER: 60/084441
6	PRIOR FILING DATE: 1998-05-06
7	PRIOR APPLICATION NUMBER: 60/084633
8	PRIOR FILING DATE: 1998-05-07
9	PRIOR APPLICATION NUMBER: 60/084639
10	PRIOR FILING DATE: 1998-05-07
11	PRIOR APPLICATION NUMBER: 60/084640
12	PRIOR FILING DATE: 1998-05-07
13	PRIOR APPLICATION NUMBER: 60/084658
14	PRIOR FILING DATE: 1998-05-07
15	PRIOR APPLICATION NUMBER: 60/084600
16	PRIOR FILING DATE: 1998-05-07
17	PRIOR APPLICATION NUMBER: 60/084627
18	PRIOR FILING DATE: 1998-05-07
19	PRIOR APPLICATION NUMBER: 60/084643
20	PRIOR FILING DATE: 1998-05-07
21	PRIOR APPLICATION NUMBER: 60/085339
22	PRIOR FILING DATE: 1998-05-13
23	PRIOR APPLICATION NUMBER: 60/085338
24	PRIOR FILING DATE: 1998-05-13
25	PRIOR APPLICATION NUMBER: 60/085323
26	PRIOR FILING DATE: 1998-05-13
27	PRIOR APPLICATION NUMBER: 60/085582
28	PRIOR FILING DATE: 1998-05-15
29	PRIOR APPLICATION NUMBER: 60/085700
30	PRIOR FILING DATE: 1998-05-15
31	PRIOR APPLICATION NUMBER: 60/085689
32	PRIOR FILING DATE: 1998-05-15
33	PRIOR APPLICATION NUMBER: 60/085579
34	PRIOR FILING DATE: 1998-05-15
35	PRIOR APPLICATION NUMBER: 60/085580
36	PRIOR FILING DATE: 1998-05-15
37	PRIOR APPLICATION NUMBER: 60/085573
38	PRIOR FILING DATE: 1998-05-15
39	PRIOR APPLICATION NUMBER: 60/085704
40	PRIOR FILING DATE: 1998-05-15
41	PRIOR APPLICATION NUMBER: 60/085697
42	PRIOR FILING DATE: 1998-05-15
43	PRIOR APPLICATION NUMBER: 60/085697

Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

Qy 2 LEPGSMSTDRRCYCPFQCEMTYMASARFCEQKAGHLLSVETALASVVDVLA-N 60
 Db 38 ISCPGSKAYGSPCYALFLSPKSMWDADLAC-QKRPCKGLTVSLGAGSGFVSLVYSIS 96
 Qy 61 KELYTYITIGLRVQNKQGPCSSISYE-----NLDVPEFCFVNSDTR 100
 Db 97 NSI--SYITIGLHDPQSGSPDGGGEMNSSTDVNTYFAKEKNPSTILNPGHGSLSRSTG 150
 Qy 104 LREMFVDCBQCHSPICKF 122
 Db 155 FLKMKDYNCDAKLPYVCKP 173

RESULT 41
US-09-978-564A-452
: Sequence 452, Application US/09978564A
: Publication No. US20030050241A1
: GENERAL INFORMATION:
: APPLICANT: Ashtekazi, Avi
: APPLICANT: Baker, Kevin P.
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleon
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Fong, Sherman
: APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumaas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PLC25
CURRENT APPLICATION NUMBER: US/09/978,564A
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
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PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
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PRIOR APPLICATION NUMBER: 60/079728
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PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
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PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
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PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
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PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
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PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

QY 2 LECPSGMSSTRYCYKFKQEMTWASAEPCSEQAKGHLVETALAEFVNVLYA-N 60
DB 38 ISCPKSKAYGSPCYALFLSPKSMMDADLAC-QKPSGKLVSVLSGAESEFVSISVSIS 96
QY 61 KEVLTYYITIGLAVONKQGPCSSISYE-----NLYDPECFMWSRDT 103
DB 97 NST--SYIWIGLDPTQSEPDGDGWMSSTDVWNYFAMEKNPSITLNPCHCSLSRSTG 154
QY 104 LRFWKVDCQEOHSFICKF 122
DB 155 FLKMKDYNCDAKLPYCKF 173

RESULT 42
US-09-999-833A-452
Sequence 452, Application US/09999833A
Publication No. US20030054405A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary B.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, U. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tuma, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P26301C65
CURRENT APPLICATION NUMBER: US/09/999, 833A
CURRENT FILING DATE: 2001-10-24
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
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PRIOR APPLICATION NUMBER: 60/064249
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PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105

APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavitt, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Peoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C12
CURRENT APPLICATION NUMBER: US/09/981,915A
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
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PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
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;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

QY 2 LEEPSGWSSTDRKCYCFKQEMTWASAEFCSQAKGHLSTVTLAEAFVUNVLYA-N-60
DB 38 ISCPKSKYAGSPCYALFLSPKSMWDADLAC-QKPSGKLVSTLGAEGSFVSLVRSIS 96
QY 61 KEVLTYIMTGLVQKQGPCSSISYE-----NIVDPECFMWSRDR 103
DB 97 NST--SYIMIGLHDPQSGSPDGDGWSSTVDMNTFAMEKPNSTILNPHGCSLSRSSTG 154
QY 104 LRFMFVDCQOQSHFICKF 122
DB 155 FLKMKDYNCDAKLPYCKF 173

RESULT 44
US-09-978-824-452

; Sequence 452, Application US/09978824
; Publication No. US20030055216A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon

;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gertsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gueney, Austin L.
;; APPLICANT: Hillan, Kenneth J.
;; APPLICANT: Kijavlin, Ivar J.
;; APPLICANT: Kuo, Sophia S.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James;
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Shelton, David L.
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tuma, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2630P1C14
;; CURRENT APPLICATION NUMBER: US/09/978,824
;; PRIOR FILING DATE: 2001-10-17
;; PRIOR APPLICATION NUMBER: 09/918585
;; PRIOR FILING DATE: 2001-07-30
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;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best local Similarity 25.3%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

QY 2 LBCPSGMSSTRDCYCPFKQEMTWASAEKFCGQAKGHLLSVETALAEAFVNVLYA-N 60
DB 38 ISCPKSKAYGSPDYALFSPKSMWDADLAC-OKRPSGKLVSYSAGBSGSFVSLVRSIS 96
QY 61 KEVLTIRYIWIGLHVONKQPCSSISYE-----NLVDPCECFVNSRDR 103
DB 97 NSY--SYIWGLDPPQGSPPDGDGHEWSSTDVNNTFAMKNSITLINPHGCSLSSTG 154
QY 104 LREMFKVDCQOQHSFICKF 122
DB 155 FLKMKDYNCDAKLPYCKF 173

RESULT 45
US-09-918-585A-452
; Sequence 452, Application US/09918585A
; Publication No. US20030060406A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C1
CURRENT APPLICATION NUMBER: US/09/919,585A
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
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Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

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DB 38 ISCPKSKAYGKSPCYALFLSPKSMMDADLAC-QKRPKGLVSVLSCAGSGFSVLSVRSIS 96
QY 61 KEVLTYIWIWGLVQNKQGPCSSISYE-----NVDPEECFNVASDTR 103
DB 97 NSI--STIWIWGLHDPTQSGSPDGDGWEWSSTDVNNYFAWEKNDSTIINPHGCSLSKSTG 154
QY 104 LRFMPKVDCEQSHSFICKF 122
DB 155 FLKMKDYNCDAKLPIYCKF 173

RESULT 46
US-09-999-834A-452
; Sequence 452, Application US/09999834A
; Publication No. US20030064407A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc

;; APPLICANT: Eaton, Dan
;; APPLICANT: Ferrara, Napoleon
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
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;; APPLICANT: Shelton, David L.
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;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2630P1C75
;; CURRENT APPLICATION NUMBER: US/09/999,834A
;; CURRENT FILING DATE: 2001-10-24
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- PRIOR APPLICATION NUMBER: 60/085573
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- PRIOR APPLICATION NUMBER: 60/085704
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- PRIOR APPLICATION NUMBER: 60/085697

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Query Match: 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 56; Conservative 25; Mismatches 57; Indels 21; Gaps 4

QY      2 LKCPGWSSTDRYCYKPKQEMTWASAEKPCSEQAKGHLISVETALASFYDNLVLA-N 60
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Db      38 IICPGKSNKXGSPCCALFLSPKSMMDADLAC-QKRPGRKLVSLSGAEGSFVSLVRSTS 96
      :|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY      61 KEYLTRYIYIGLRVONKQGPCSSISYE-----NLVDFEFCFMSVRDTR 103
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Db      97 NSY-SYIWMIGHDPQTQSEPDGDGEMWSSTDVWNYFAEMKPNSTILNKGHGLSLSRSTG 154
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QY      104 LREMPKVDCEQOHSFICKF 122
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RESULT 47
US-09-978-423A-452
; Sequence 452, Application US/09978423A
; Publication No. US20030069178A1
GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David

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APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
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APPLICANT: KJavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Nadler, Mary A.
APPLICANT: Pan, James,
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC21
CURRENT APPLICATION NUMBER: US/09/978,423A
CURRENT FILING DATE: 2002-05-16
PRIOR APPLICATION NUMBER: 09/918585
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PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

QY 2 LBCPSGMSSTDRYCYKPFQEMTWASAEFCEQOAKGHLSEVTALEAFVDNVLVA-N 60
DB 38 ISCPGSKAYGSPCYALFLSPKSMWDADLAC-QKRPSSGLTVLVSAGBSFVSSLVRSIS 96
QY 61 KYLYRYITIGLRVQKGGPCSSISYE-----NLVDFECFMSRDTR 103
DB 97 NSY--SYIWIGHDPQSGSEPDGDGEMWSTDVNNYFAWEKNPSTILNGHCGLSRSRG 154
QY 104 LREWFVDEQGHSPCKF 122
DB 155 FLKMDYNDCAKLPIYCKF 173

RESULT 48
US-09-978-193A-452
Sequence 452, Application US/09978193A
Publication No. US2003073624A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.

APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC6
CURRENT APPLICATION NUMBER: US/09/978,193A
CURRENT FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
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;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

Qy 2 LECPSGMSSTDRRCYCFKQEMTWASERFCSBOAKGCHLSTVETLSEAFVUNVLYA-N 60
Db 38 ISCPKSKAYGSCYVLFSLPKSKMDADLAC-QKRSGLTVSVLSGAEFSFVSLVRSIS 96
Qy 61 KEYLTRYIWIQLRVONKQGPCSSISYE-----NIVDPECFMVSRRDR 103
Db 97 NSY--SYIWIQLHDPGSEPDGDGWMSSTDVWNYFAWEKPNSTILNPGHCSLSRSTG 154
Qy 104 LREMFVDEQCHSFICKF 122
Db 155 FLKMDKYNCDAKLPYCKF 173

RESULT 49
US-09-999-830A-452
; Sequence 452, Application US/09999830A
; Publication No. US2003007700A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi

APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
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APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C70
CURRENT APPLICATION NUMBER: US/09/999,830A
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; PRIOR FILING DATE: 1998-04-29
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Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

QY 2 LECPSGWSSTRDYCYKPEKQEMTWASAEFCSBOAKGHLSTVETALASFPVNVLVA-N 60
DB 38 ISCPKSKAAGSCYALFLSPKSMDDDLAC-QKREPKLVSVLSGAGSFVSLVSLIS 96
QY 61 KEYLTRYIWIIGLAVQNKQPCSSISYE-----NIVDPEECFVWSRDT 103
DB 97 NSY--SYIWIIGLHDPTQGSBDDGDWMSSTDVNMYFAWEKPNSTIINFGHCSLSRSTG 154
QY 104 LREMFVDCGQCHSFTCKF 122
DB 155 FLKWKDYNCDAKLPYVCKF 173

RESULT 50
US-09-978-757A-452
; Sequence 452, Application US/09978757A
; Publication No. US20030083246A1
; GENERAL INFORMATION:
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; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertlisen, Mary E.
; APPLICANT: Goddard, Audrey
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; APPLICANT: Gurney, Austin L.
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; APPLICANT: Shelton, David L.
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; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCES: P2630PIC26
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: 09/918585
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; PRIOR APPLICATION NUMBER: 60/079664
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079663
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079728
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PRIOR FILING DATE: 1998-03-27
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PRIOR FILING DATE: 1998-03-31
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PRIOR FILING DATE: 1998-03-31
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PRIOR FILING DATE: 1998-04-01
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PRIOR FILING DATE: 1998-04-29

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PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
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PRIOR APPLICATION NUMBER: 60/085582
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PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
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PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 21.4%; Score 148.5; DB 10; Length 175;
Best Local Similarity 25.9%; Pred. No. 8e-09; Mismatches 57; Indels 21; Gaps 4;
Matches 36; Conservative 25;

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DB 38 ISCPKGSKAYGSPCALFLSPKSMWDADLAC-QKPSKULVSVLSGAGSVSSIVRSIS 96
QY 61 KEYLTRYWIIGLRVONKQOPCSSISYE-----NLVDFEFCFMVSRDTR 103
DB 97 NSY--SYIWIIGHPTQSEPDGDGMEWSTDVNNYFAMEKNPSTILNPGHGSISRSTG 154
QY 104 LREWFKVCDEQHSPTCKF 122
DB 155 FLKMDVNCDAKLPRYCKF 173

Search completed: May 2, 2005, 16:07:34
Job time : 58 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Comphen Ltd.

OM protein - protein search, using sw model

Run on: May 2, 2005, 15:59:07 / Search time 24 Seconds
(without alignments)
391.908 Million cell updates/sec

Title: US-10-749-387-1

Perfect score: 695
Sequence: 1 DLECPGWSSTDRYCYKPFK.....MFKVDCQGHSPICKFTPR 126

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000.

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 65 summaries

Database :

Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	695	100.0	126	4	US-09-969-763-1
2	684	98.4	126	2	US-08-612-840A-2
3	684	98.4	149	2	US-08-612-840A-8
4	684	98.4	149	4	US-09-969-763-3
5	661	95.1	127	1	US-07-614-443A-1
6	661	95.1	127	1	US-08-294-859-1
7	661	95.1	127	1	US-08-481-676-1
8	542	78.0	110	4	US-09-969-763-10
9	340.5	49.0	130	5	US-07-893-929A-7
10	340.5	49.0	130	5	PCT-US92-10344-7
11	326.5	47.0	131	1	US-07-893-929A-1
12	326.5	47.0	131	5	PCT-US92-10344-1
13	325.5	46.8	132	1	US-07-893-929A-5
14	325.5	46.8	132	5	PCT-US92-10344-5
15	307.5	44.2	134	5	US-07-893-929A-2
16	307.5	44.2	134	5	PCT-US92-10344-2
17	271.5	39.1	129	4	US-09-058-740-2
18	256.5	36.9	133	1	US-07-893-929A-9
19	256.5	36.9	133	5	PCT-US92-10344-9
20	251.5	36.2	123	5	US-07-893-929A-4
21	251.5	36.2	123	5	PCT-US92-10344-4
22	211.5	30.4	117	1	US-07-614-443A-2
23	211.5	30.4	117	1	US-08-294-859-2
24	211.5	30.4	117	1	US-08-481-676-2
25	208	29.9	38	2	US-08-612-840A-1
26	200	28.8	107	1	US-07-893-929A-6
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28	188.5	27.1	125	1	US-07-893-929A-3	Sequence 3, Appl1
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30	168	24.2	144	4	US-09-949-016-10685	Sequence 10685, A
31	168	24.2	166	4	US-09-949-016-6286	Sequence 6286, Ap
32	164	23.6	50	1	US-07-614-443A-5	Sequence 5, Appl1
33	164	23.6	50	1	US-08-294-859-5	Sequence 5, Appl1
34	164	23.6	50	1	US-08-481-676-5	Sequence 5, Appl1
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36	162.5	23.4	175	2	US-08-709-662-3	Sequence 3, Appl1
37	158	22.7	123	1	US-07-893-929A-10	Sequence 10, Appl
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39	153.5	22.1	175	2	US-08-464-637-2	Sequence 2, Appl1
40	153.5	22.1	175	2	US-08-401-530A-4	Sequence 4, Appl1
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44	153.5	22.1	183	4	US-09-949-016-10537	Sequence 10537, A
45	151	21.7	165	2	US-08-401-530A-7	Sequence 7, Appl1
46	151	21.7	165	2	US-08-729-103-3	Sequence 3, Appl1
47	151	21.7	165	2	US-08-709-662-7	Sequence 7, Appl1
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52	147	21.2	166	2	US-08-729-103-4	Sequence 4, Appl1
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55	143.5	20.6	158	2	US-08-468-413-2	Sequence 2, Appl1
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57	143.5	20.6	158	3	PCT-US95-07169-2	Sequence 2, Appl1
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59	142.5	20.5	174	1	US-07-778-156-7	Sequence 7, Appl1
60	142.5	20.5	174	2	US-08-822-261-4	Sequence 4, Appl1
61	142.5	20.5	174	2	US-08-422-166-7	Sequence 7, Appl1
62	142.5	20.5	174	4	US-09-226-852-4	Sequence 4, Appl1
63	142.5	20.5	163	1	US-08-220-603A-11	Sequence 11, Appl
64	140.5	20.2	174	2	US-08-401-530A-2	Sequence 2, Appl1
65	140.5	20.2	174	2	US-08-709-662-2	Sequence 2, Appl1

RESULT 1
US-09-969-763-1
Sequence 1, Application US/09969763
Patent No. 6710031
GENERAL INFORMATION:
APPLICANT: FUKUCHI, NAOYUKI
APPLICANT: KITO, MORIKAZU
APPLICANT: KAYAHARA, TAKASHI
APPLICANT: FUTAKI, FUMIE
APPLICANT: ISHIKAWA, KOIKI
APPLICANT: SUZUKI, EIICHIRO
APPLICANT: GONDOH, KEIKO
APPLICANT: SHIMBA, NOBUHISA
APPLICANT: YAMADA, NAOYUKI
TITLE OF INVENTION: PROTEIN HAVING ANTITHROMBOTIC ACTIVITY AND METHOD FOR PRODUCING TH
FILE REFERENCE: 214760US0
CURRENT APPLICATION NUMBER: US/09/969,763
CURRENT FILING DATE: 2000-10-25
PRIOR APPLICATION NUMBER: JP 2000-305279
PRIOR FILING DATE: 2000-10-04
NUMBER OF SEQ ID NOS: 50
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 126
TYPE: PRT
ORGANISM: Crocotalus horridus
US-09-969-763-1
Query Match 100.0%; Score 695; DB 4; Length 126;
Best Local Similarity 100.0%; Pred. No. 7,9e-78;

RESULT 4
US-09-969-763-3
Sequence 3, Application US/09969763
Patent No. 6710031
GENERAL INFORMATION:
APPLICANT: FUKUCHI, NAOKUKI
APPLICANT: KITO, MORIKAZU
APPLICANT: KAYAHARA, TAKASHI
APPLICANT: FUTAKI, FUMIE
APPLICANT: ISHIKAWA, KOIKI
APPLICANT: SUZUKI, EIICHIRO
APPLICANT: GONDOH, KEIKO
APPLICANT: SHIMBA, NOBUHISA
APPLICANT: YAMADA, NAOKUKI
TITLE OF INVENTION: PROTEIN HAVING ANTI-THROMBOTIC ACTIVITY AND METHOD FOR PRODUCING IT
FILE REFERENCE: 214760US0
CURRENT APPLICATION NUMBER: US/09/969, 763
PRIOR FILING DATE: 2000-10-25
PRIOR APPLICATION NUMBER: JP 2000-305279
PRIOR FILING DATE: 2000-10-04
NUMBER OF SEQ ID NOS: 50
SOFTWARE: Patentin version 3.1
SEQ ID NO 3
LENGTH: 149
TYPE: PRT
ORGANISM: Crocotalus harridus
US-09-969-763-3

Query Match 98.4%; Score 684; DB 4; Length 149;
Best Local Similarity 98.4%; Pred. No. 2, 2e-76;
Matches 124; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DIECPGMSSTDYRYCKPKFQEWMTWASARFCSEQAKGHLISVETALASFDVNTLYAN 60
DB 24 DIECPGMSSTDYRYCKPKFQEWMTWASARFCSEQAKGHLISVETALASFDVNTLYAN 83
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DB 84 KEVLTFTYIWIIGLRVQNKQPCSSISYENLVDPPECFMVSBDTRLRPMFKVDCQOHSFIC 143
QY 121 KFTPR 126
DB 144 KFTPR 149

RESULT 5
US-07-614-443A-1
Sequence 1, Application US/07614443A
Patent No. 5342830
GENERAL INFORMATION:
APPLICANT: SCARBOROUGH, ROBERT M.
TITLE OF INVENTION: ANTI-THROMBOSIS AGENTS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSER: Morrison & Foerster
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/614,443A
FILING DATE: 19901116
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Murashige, Kate H.
REGISTRATION NUMBER: 29,959

REFERENCE/DOCKET NUMBER: 22803-20003.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 127 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-07-614-443A-1

Query Match 95.1%; Score 661; DB 1; Length 127;
Best Local Similarity 96.0%; Pred. No. 1, 2e-73;
Matches 121; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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DB 1 DIECPGMSSTDYRYCKPKFQEWMTWASARFCSEQAKGHLISVETALASFDVNTLYAN 60
QY 61 KEVLTFTYIWIIGLRVQNKQPCSSISYENLVDPPECFMVSBDTRLRPMFKVDCQOHSFIC 120
DB 61 KEVLTFTYIWIIGLRVQNKQPCSSISYENLVDPPECFMVSBDTRLRPMFKVDCQOHSFIC 120
QY 121 KFTPR 126
DB 121 KFTPR 126

RESULT 6
US-08-294-859-1
Sequence 1, Application US/08294859
Patent No. 5679542
GENERAL INFORMATION:
APPLICANT: SCARBOROUGH, ROBERT M.
TITLE OF INVENTION: ANTI-THROMBOSIS AGENTS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSER: Morrison & Foerster
STREET: 2000 Pennsylvania Ave. N.W., Suite 5500
CITY: Washington, D.C.
COUNTRY: USA
ZIP: 20006-1888
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/294,859
FILING DATE: 29-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Murashige, Kate H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 2803-0003.10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 127 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-294-859-1

Query Match 95.1%; Score 661; DB 1; Length 127;
Best Local Similarity 96.0%; Pred. No. 1, 2e-73;
Matches 121; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Qy	2	DECPGMS\$YD\$RYCYKPEKQEMTAA\$E\$RCSEQAKGHL\$VETL\$AS\$F\$D\$N\$V\$Y\$AN	60
Db	1	DECPGMS\$YD\$RYCYKPEKQEMTAA\$E\$RCSEQAKGHL\$VETL\$AS\$F\$D\$N\$V\$Y\$AN	60
Qy	61	KE\$Y\$T\$R\$Y\$I\$G\$H\$R\$V\$Q\$N\$K\$Q\$P\$C\$S\$I\$S\$E\$N\$U\$V\$D\$P\$E\$F\$C\$F\$W\$S\$R\$D\$T\$R\$L\$R\$E\$M\$F\$K\$Y\$D\$C\$E\$Q\$H\$S\$F\$IC	120
Db	61	KE\$Y\$T\$R\$Y\$I\$G\$H\$R\$V\$Q\$N\$K\$Q\$P\$C\$S\$I\$S\$E\$N\$U\$V\$D\$P\$E\$F\$C\$F\$W\$S\$R\$D\$T\$R\$L\$R\$E\$M\$F\$K\$Y\$D\$C\$E\$Q\$H\$S\$F\$IC	120
Qy	121	K\$F\$T\$R\$P\$R	126
Db	121	K\$F\$T\$R\$P\$R	126

RESULT 7

US-08-481-676-1
US-08-481-676-1
Sequence 1, Application US/08481676
Patent No. 5744584
GENERAL INFORMATION:
APPLICANT: SCARBOROUGH, ROBERT M.
TITLE OF INVENTION: ANTITHROMBOTIC AGENTS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Morrison & Foerster
STREET: 2000 Pennsylvania Ave. N.W., Suite 5500
City: Washington, D.C.
COUNTRY: USA
ZIP: 20006-1888
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/481,676
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/294,859
FILING DATE: 29-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Murashige, Kate H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 2803-0003.10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 127 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-481-676-1

Query Match	95.1%	Score 661	DB 1	Length 127
Best Local Similarity	96.0%	Pred. No. 1.2e-73		
Matches 121; Conservative	0	Mismatches 5	Indels 0	Gaps 0

Qy	1	DLEPSSMSSIDRCYKPFQEOEMTMSARFCEQOKGSHLSTVTALEAFVONVLYAN	60
Db	1	DLEPSSMSSIDRCYKPFQEMTMDAERFCEQOKGSHLSTVTALEAFVONVLYAN	60
Qy	61	KEYLTRITWIGLVRONKQPCSSISYENLVDPCEPMYRDRLLEEMWKCVOEOHSFIC	120
Db	61	KEYLTRITWIGLVRONKQPCSSISYENLVDPCEPMYRDRLLEEMWKCVOEOHSFIC	120
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Db	121	KFTFRR	126

RESULT 8

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US-09-969-763-10
? Sequence 10, Application US/09969763
? Patent No. 6710031
? GENERAL INFORMATION:
? APPLICANT: FUKUCHI, MOTOYUKI
? APPLICANT: KITTO, MORITAKU
? APPLICANT: KAWAHARA, TAKASHI
? APPLICANT: FUKUKI, FUMIE
? APPLICANT: ISHIKAWA, KOHJI
? APPLICANT: SUZUKI, EIICHIRO
? APPLICANT: GONDOH, KEIKO
? APPLICANT: SHIMBA, NOBUHISA
? APPLICANT: YAMADA, MOTOYUKI
? TITLE OF INVENTION: PROTEIN HAVING ANTITUMOR
? FILE REFERENCE: 214760USO
? CURRENT APPLICATION NUMBER: US/09/969,763
? PRIOR FILING DATE: 2000-10-25
? PRIOR APPLICATION NUMBER: JP-2000-305279
? PRIOR FILING DATE: 2000-10-04
? NUMBER OF SEQ ID NOS: 50
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 10
? LENGTH: 110
? TYPE: PRT
? ORGANISM: ARTIFICIAL SEQUENCE
? FEATURE:
? OTHER INFORMATION: SYNTHETIC PEPTIDE
US-09-969-763-10

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Query Match	78.0%;	Score 542;	DB 4;	length 110;
Best Local Similarity	81.7%;	Pred. No. 4.8e-59;		
Matches 103; Conservative	1;	Mismatches 6;	Indels 16;	Gaps 1;

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Qy 1 DLCPBGMSSTBYCYKPFKQEMTWASERFCSBOAKGHLSTYETLAEASFVDNVL 60
Db 1 DLCPBGMSSTBYCYKPFKQEMTWASERFCSBOAKGHLSTYETLAEASFVDNVL 60
Qy 61 KEVLTPIYTWIGLAVQNKGPCCSSISEMVLVDFEFCFMVSRDTRLREMFKYDCQOHSFIC 120
Db 61 KEVLTPIYTWIGLAVQNKGPCCSSISEMVLVDFEFCFMVSRDTRLREMFKYDCQOHSFIC 104
Qy 121 KFTPR 126
Db 105 KFTPR 110
```

RESULT 9

US-07-893-929A-7
Sequence 7, Application US/07893929A
Patent No. 5336667
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
TITLE OF INVENTION: Alboagregins: Platelet
TITLE OF INVENTION: Agonists Which Bind To Platelets
TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
ADDRESSSE: wealth System of Higher Education
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: us/07/893,929A
FILING DATE: 19920605

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: No. 533667e
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 130 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
US-07-893-929A-7

Query Match 49.0%; Score 340.5; DB 1; Length 130;
Best Local Similarity 50.8%; Pred. No. 4.2e-34;
Matches 66; Conservative 22; Mismatches 29; Indels 13; Gaps 4;

QY 3 ECPGWSSTDRYCYKPFKQEMTWASABRCSQAKGHLISVETALASFDVNVLYAN-K 61
DB 1 DCPDMSFQYCYQIVKELKTWEDARFCSEQANDGHLVSYREAVFVALLSENYK 60
QY 62 EYITRIYIWGLRVQNGQPC-----SSISYENLV--DPFECFMVSRDTRLREMKVDC 112
DB 61 KY--HWVIGLSVQNGQCSSEWSDSSVSyenLVKPNKCFVLKKESEFTWSNVYC 117
QY 113 EOGHSFICKF 122
DB 118 EOGHIFMCKF 127

RESULT 10
PCT-US92-10344-7
Sequence 7, Application PC/TUS9210344
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
TITLE OF INVENTION: Alboagregins: Platelet
TITLE OF INVENTION: Agonists Which Bind To Platelet
TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/10344
FILING DATE: 19921201
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549

TELEX: None
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 130 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
PCT-US92-10344-7

Query Match 49.0%; Score 340.5; DB 5; Length 130;
Best Local Similarity 50.8%; Pred. No. 4.2e-34;
Matches 66; Conservative 22; Mismatches 29; Indels 13; Gaps 4;

QY 3 ECPGWSSTDRYCYKPFKQEMTWASABRCSQAKGHLISVETALASFDVNVLYAN-K 61
DB 1 DCPDMSFQYCYQIVKELKTWEDARFCSEQANDGHLVSYREAVFVALLSENYK 60
QY 62 EYITRIYIWGLRVQNGQPC-----SSISYENLV--DPFECFMVSRDTRLREMKVDC 112
DB 61 KY--HWVIGLSVQNGQCSSEWSDSSVSyenLVKPNKCFVLKKESEFTWSNVYC 117
QY 113 EOGHSFICKF 122
DB 118 EOGHIFMCKF 127

RESULT 11
US-07-893-929A-1
Sequence 1, Application US/07893929A
Patent No. 533667
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
TITLE OF INVENTION: Alboagregins: Platelet
TITLE OF INVENTION: Agonists Which Bind To Platelet
TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/893,929A
FILING DATE: 19920605
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: No. 533667e
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 131 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
US-07-893-929A-1

Query Match 47.0%; Score 326.5; DB 1; Length 131;
Best Local Similarity 46.6%; Pred. No. 2.3e-32;

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: None
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 134 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
PCT-US92-10344-2

Query Match 44.2%; Score 307.5; DB 5; Length 134;
Best Local Similarity 42.0%; Pred. No. 5.1e-30;
Matches 55; Conservative 26; Mismatches 41; Indels 9; Gaps 2;

QY 1 DLECPGWSSTDRYCYKPFKQEMTWSAERFCEQAKGHLISVETALIASFVDNVLVYAN 60
DB 1 DFLCLPGWSAYDYCYKVFNEPKWEDAEFCAKQADSGHLVSIETGEADFAVLQISN 60
QY 61 KEVLTFRYIWGLRVONKGPC-----SSISYENLVDPF--ECFVMSRDLRLREWKVD 111
DB 61 IQSKHYWIGLWVONKQCCSSSEMSDSSVTYENLIKMKRCGLAEQSGRKINING 120
QY 112 CEQOHSFICK 122
DB 121 CIOLEPFVCKF 131

RESULT 17
US-09-058-740-2
Sequence 2, Application US/09058740
Patent No. 6489451

GENERAL INFORMATION:
APPLICANT: Chun Wang, Benjamin XY Li, Xin Cheng,
Jing Liu, Li-Wen Niu, Wan-Zhi Huang,
Zhen-Yu Xu, Dan Luo, Lian-Di Kang,
Jin-Guo Ding, Fang Rong, Yan Liu and
Hui-Ran Chen

TITLE OF INVENTION: AN ANTITHROMBOSIS ENZYME FROM THE SNAKE
VENOM OF AGKISTROON ACUTUS
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Filth Street
Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: storage
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/058,740
FILING DATE: 10-Apr-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: <Unknown>
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Chen, Anthony C.
REGISTRATION NUMBER: 38,673
REFERENCE/DOCKET NUMBER: 233/298

TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 129 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-058-740-2

Query Match 39.1%; Score 271.5; DB 4; Length 129;
Best Local Similarity 41.4%; Pred. No. 1.3e-25;
Matches 53; Conservative 22; Mismatches 44; Indels 9; Gaps 2;

QY 3 ECPGWSSTDRYCYKPFKQEMTWSAERFCEQAKGHLISVETALIASFVDNVLVYANKE 62
DB 1 DCSLWSYEGHCYKVFQSKTWTDAESFCTKQVNGHLVSISSGEADFAVLQAKIX 60
QY 63 YLTRYIWGLRVONKGPC-----SSISYENLV--DFECFVMSRDLRLREWKVD 113
DB 61 SAKHWIGLRAQNKQKCSIEMSDSSISKENWIEESKCLGVHIEFGHKWENFYCE 120
QY 114 QOHSFICK 121
DB 121 QODPFVCE 128

RESULT 18
US-07-893-929A-9
Sequence 9, Application US/07893929A
Patent No. 5336667

GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
TITLE OF INVENTION: Alboagregins: Platelet
TITLE OF INVENTION: Agonists Which Bind To Platelet

TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
ADDRESS: Wealth System of Higher Education
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/893,929A
FILING DATE: 19920605
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: No. 5336667e
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 133 amino acids

TYPE: AMINO ACID
TOPOLOGY: linear
US-07-893-929A-9

Query Match 36.9%; Score 256.5; DB 1; Length 133;
Best Local Similarity 37.8%; Pred. No. 9.8e-24;
Matches 51; Conservative 30; Mismatches 43; Indels 11; Gaps 4;

QY 1 DLCEPQSGWSTDRYCYKPFQKQEMTWASAEKFCSEQAKGHLISVETALASFPVDNVLVAN 60
DB 1 DDCSLGMSYEGHCTQLFRK-TWDEAKYCN-QMDGHLVISENAKAEFVAQLISRK 58
QY 61 --KEYLTRYIWIIGLRYONKQPC-----SSISYENLVDPFECFVNSRDTLRREMKVD 111
DB 59 LPKSAIEDRWIIGLDRSRKREOCGHLMTDNTSPVHYEHVPTKCFYLERQTERFKMLAVN 118
QY 112 CEQOHSFICKFTRPR 126
DB 119 CEKFPFVCKAKIPR 133

RESULT 19

PCT-US92-10344-9
Sequence 9, Application PC/TUS9210344
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
TITLE OF INVENTION: Alboaggregins: Platelet
TITLE OF INVENTION: Agonists Which Bind To Platelet
TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
ADDRESS: wealth System of Higher Education
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/10344
FILING DATE: 19921201
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: None
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 133 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
PCT-US92-10344-9

Query Match 36.9%; Score 256.5; DB 5; Length 133;
Best Local Similarity 37.8%; Pred. No. 9.8e-24;
Matches 51; Conservative 30; Mismatches 43; Indels 11; Gaps 4;
QY 1 DLCEPQSGWSTDRYCYKPFQKQEMTWASAEKFCSEQAKGHLISVETALASFPVDNVLVAN 60
DB 1 DDCSLGMSYEGHCTQLFRK-TWDEAKYCN-QMDGHLVISENAKAEFVAQLISRK 58

QY 61 --KEYLTRYIWIIGLRYONKQPC-----SSISYENLVDPFECFVNSRDTLRREMKVD 111
DB 59 LPKSAIEDRWIIGLDRSRKREOCGHLMTDNTSPVHYEHVPTKCFYLERQTERFKMLAVN 118
QY 112 CEQOHSFICKFTRPR 126
DB 119 CEKFPFVCKAKIPR 133

RESULT 20

US-07-893-929A-4
Sequence 4, Application US/07893929A
Patent No. 5336667
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
TITLE OF INVENTION: Alboaggregins: Platelet
TITLE OF INVENTION: Agonists Which Bind To Platelet
TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
ADDRESS: wealth System of Higher Education
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/893,929A
FILING DATE: 19920605
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: No. 5336667e
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 123 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
US-07-893-929A-4

Query Match 36.2%; Score 251.5; DB 1; Length 123;
Best Local Similarity 39.7%; Pred. No. 3.7e-23;
Matches 52; Conservative 22; Mismatches 36; Indels 21; Gaps 6;

QY 3 ECPQSGWSTDRYCYKPFQKQEMTWASAEKFCSEQAKGHLISVETALASFPVDNVLVAN 58
DB 1 DCPQSGWSTDRYCYKPFQKQEMTWASAEKFCSEQAKGHLISVETALASFPVDNVLVAN 60
QY 59 ANKEYLTRYIWIIGLRYONKQPCSS-----ISYENLVDPFECFVNSRDTLRREMKVD 111
DB 61 AN-----LVWIGL--SNLMNGNSQMSDGTLDYCKMREQFEC-LVSRITN-NEWLSMD 110
QY 112 CEQOHSFICKF 122
DB 111 CSSTHSFVCF 121

TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-294-859-2

Query Match 30.4%; Score 211.5; DB 1; Length 117;
Best Local Similarity 36.9%; Pred. No. 2,9e-18;
Matches 45; Conservative 28; Mismatches 42; Indels 7; Gaps 5;

QY 3 ECPSGWSSTDRYCYKPKFQKQMTWASAEFCSQAKGHLSTALASVVDVLANKE 62
DB 1 DCPSDMSSTYEGHCTYRFQOEMTWDAKFKCTQOHTGHLVSFRSSSEVDPLVSLKFDLP 60

QY 63 YL-TRYIMWGLRVQ-NKGQPCSSISYENLVDPFECFVSRDTRLRWFVKVDCQOHSFIC 120
DB 61 WMGWRIDIMBRRLQWSDG---TKVNYKAMSABEPC-IVCRATD-NQWLSTSCSKTHNVVC 115

QY 121 KP 122
DB 116 KF 117

RESULT 24
US-08-481-676-2
Sequence 2, Application US/08481676
Patent No. 5744584
GENERAL INFORMATION:
APPLICANT: SCARBOROUGH, ROBERT M.
TITLE OF INVENTION: ANTITHROMBOSIS AGENTS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Morrison & Foerster
STREET: 2000 Pennsylvania Ave. N.W., Suite 5500
CITY: Washington, D.C.
COUNTRY: USA
ZIP: 20006-1888
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/481,676
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/294,859
FILING DATE: 29-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Murashige, Kate H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 2803-0003.10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-481-676-2

Query Match 30.4%; Score 211.5; DB 1; Length 117;
Best Local Similarity 36.9%; Pred. No. 2,9e-18;

Matches 45; Conservative 28; Mismatches 42; Indels 7; Gaps 5;

QY 3 ECPSGWSSTDRYCYKPKFQKQMTWASAEFCSQAKGHLSTALASVVDVLANKE 62
DB 1 DCPSDMSSTYEGHCTYRFQOEMTWDAKFKCTQOHTGHLVSFRSSSEVDPLVSLKFDLP 60

QY 63 YL-TRYIMWGLRVQ-NKGQPCSSISYENLVDPFECFVSRDTRLRWFVKVDCQOHSFIC 120
DB 61 WMGWRIDIMBRRLQWSDG---TKVNYKAMSABEPC-IVCRATD-NQWLSTSCSKTHNVVC 115

QY 121 KP 122
DB 116 KF 117

RESULT 25
US-08-612-840A-1
Sequence 1, Application US/08612840A
Patent No. 5856126
GENERAL INFORMATION:
APPLICANT: FUKUCHI, Naoyuki
APPLICANT: YAMAMOTO, Hiroshi
APPLICANT: MAGANO, Mitsuyo
APPLICANT: KITO, Morikazu
APPLICANT: TANAKA, Akiko
APPLICANT: ISHII, Koichi
APPLICANT: KOBAYASHI, Tanyoshi
APPLICANT: YOSHIMOTO, Ryota
TITLE OF INVENTION: PEPTIDE HAVING ANTI-THROMBUS ACTIVITY AND
TITLE OF INVENTION: METHOD OF PRODUCING THE SAME
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Oblon, Spivak, McClelland, Maier & Neustadt, P.C.
STREET: 1755 S. Jefferson Davis Highway, Suite 400
CITY: Arlington
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/612,840A
FILING DATE: 20-MAR-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 5-236975
FILING DATE: 22-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: No. 5856126man F. Oblon
REGISTRATION NUMBER: 24,618
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-612-840A-1

Query Match 29.9%; Score 208; DB 2; Length 38;
Best Local Similarity 94.7%; Pred. No. 1,8e-18;
Matches 36; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DLECPGWSSTDRYCYKPKFQKQMTWASAEFCSQAKG 38
DB 1 DLECPGWSSTDRYCYKPKFQKQMTWADAEFCSQAKG 38

RESULT 26
US-07-893-929A-6
Sequence 6, Application US/07893929A
Patent No. 5336667
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
APPLICANT: Peng, Man-ling
TITLE OF INVENTION: Alboagregins: Platelet
TITLE OF INVENTION: Agonists Which Bind To Platelet
TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
ADDRESSER: wealth System of Higher Education
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/893,929A
FILING DATE: 19920605
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: No. 5336667e
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
US-07-893-929A-6
Query Match 28.8%; Score 200; DB 1; Length 107;
Best Local Similarity 34.6%; Pred. No. 6,8e-17;
Matches 44; Conservative 18; Mismatches 37; Indels 28; Gaps 5;
QY 3 ECPGSGMSIDRYCYKPFKQEMTWASAEPCGSOAKGSHLLSVETALASFDNVLNANKE 62
DB 1 DCPGMSSTDYLYCYKVFQORMWEDAEPCROHTGSHLLSPHSEKADPV----- 51
QY 63 YLTRYIWIGL-----RVQ-NKGQPCSSISYENLVDPFECFVMSRDLRLRMEFKVDCQ 114
DB 52 -----WIGLTDVWAGACRLQWSDG---TELKYNMTASEC--IASKTTDQWMTWSCSK 100
QY 115 QHSFICK 121
DB 101 TYPFVCK 107
RESULT 27
PCT-US92-10344-6
Sequence 6, Application PC/TUS9210344
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
APPLICANT: Peng, Man-ling
TITLE OF INVENTION: Alboagregins: Platelet
TITLE OF INVENTION: Agonists Which Bind To Platelet
TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
ADDRESSER: wealth System of Higher Education
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/10344
FILING DATE: 19921201
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: None
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
PCT-US92-10344-6
Query Match 28.8%; Score 200; DB 5; Length 107;
Best Local Similarity 34.6%; Pred. No. 6,8e-17;
Matches 44; Conservative 18; Mismatches 37; Indels 28; Gaps 5;
QY 3 ECPGSGMSIDRYCYKPFKQEMTWASAEPCGSOAKGSHLLSVETALASFDNVLNANKE 62
DB 1 DCPGMSSTDYLYCYKVFQORMWEDAEPCROHTGSHLLSPHSEKADPV----- 51
QY 63 YLTRYIWIGL-----RVQ-NKGQPCSSISYENLVDPFECFVMSRDLRLRMEFKVDCQ 114
DB 52 -----WIGLTDVWAGACRLQWSDG---TELKYNMTASEC--IASKTTDQWMTWSCSK 100
QY 115 QHSFICK 121
DB 101 TYPFVCK 107
RESULT 28
US-07-893-929A-3
Sequence 3, Application US/07893929A
Patent No. 5336667
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
APPLICANT: Peng, Man-ling
TITLE OF INVENTION: Alboagregins: Platelet
TITLE OF INVENTION: Agonists Which Bind To Platelet
TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
ADDRESSER: wealth System of Higher Education
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb

COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/893,929A
FILING DATE: 19920605
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: No. 5336676
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 125 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
US-07-893-929A-3

Query Match 27.1%; Score 188.5; DB 1; Length 125;
Best Local Similarity 33.3%; Pred. No. 2.2e-15;
Matches 42; Conservative 22; Mismatches 49; Indels 13; Gaps 5;

QY 4 CPBGMSSTRDYCYKPKQKMTWASAEPCSEQAKGHLISVETALBASFDVNLVANKY 63
DB 4 CPBGMSYSGCYKYVKNKMMEDASFCEQHKRSHLVFHSSEGVDFVSKTFILRY 63
QY 64 LRRYIWIIGLRVQNKQPCSS-----ISYENLVDPFCFMTSRDRLRBMFKVDCQCH 116
DB 64 --DFVMMGL--SDIWKCTKEMSDGARLDYKAMSGKSYC-LVSKTTN-NEWLMDCSRLL 117
QY 117 SFICKP 122
DB 118 YPVCKF 123

RESULT 29
PCT-US92-10344-3
Sequence 3: Application PC/TUS9210344
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
APPLICANT: Peng, Man-ling
TITLE OF INVENTION: Alboagregins: Platelet
TITLE OF INVENTION: Agonists Which Bind to Platelet
TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
STREET: wealth System of Higher Education
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/10344
FILING DATE: 19921201
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:

NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: None
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 125 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
PCT-US92-10344-3

Query Match 27.1%; Score 188.5; DB 5; Length 125;
Best Local Similarity 33.3%; Pred. No. 2.2e-15;
Matches 42; Conservative 22; Mismatches 49; Indels 13; Gaps 5;

QY 4 CPBGMSSTRDYCYKPKQKMTWASAEPCSEQAKGHLISVETALBASFDVNLVANKY 63
DB 4 CPBGMSYSGCYKYVKNKMMEDASFCEQHKRSHLVFHSSEGVDFVSKTFILRY 63
QY 64 LRRYIWIIGLRVQNKQPCSS-----ISYENLVDPFCFMTSRDRLRBMFKVDCQCH 116
DB 64 --DFVMMGL--SDIWKCTKEMSDGARLDYKAMSGKSYC-LVSKTTN-NEWLMDCSRLL 117
QY 117 SFICKP 122
DB 118 YPVCKF 123

RESULT 30
US-09-949-016-10685
Sequence 10685, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10685
LENGTH: 144
TYPE: PRT
ORGANISM: Human
US-09-949-016-10685

Query Match 24.2%; Score 168; DB 4; Length 144;
Best Local Similarity 31.1%; Pred. No. 8.9e-13;
Matches 42; Conservative 25; Mismatches 50; Indels 18; Gaps 5;

QY 2 LBCPGMSSTRDYCYKPKQKMTWASAEPCSEQAKGHLISVETALBASFDVNLVANKY 61
DB 12 ISCPBGTNAIYRSYCYFNEEDRETWDADLYC-QNMNSGULVSLTAECAFVASLI---K 67
QY 62 EYLTR--YIWIIGLRVQNKQ-----PCSSISYE-----NLVDPFCFMTSRDRLRBM 107
DB 68 ESGTDDFNWMIIGLHPKRRMRHMSGSLVSYKWCIGAPSSVNPQYCVSLTSSSTFOKM 127
QY 108 FKVDCQCHSFICKP 122
DB 128 KDVPCEDKPSFVCKP 142

NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Morisson & Foerster
STREET: 2000 Pennsylvania Ave. N.W., Suite 5500
CITY: Washington, D.C.
COUNTRY: USA
ZIP: 20006-1888
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/481,676
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/294,859
FILING DATE: 29-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Murashige, Kate H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 2803-0003.10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-481-676-5

Query Match 23.6%; Score 164; DB 1; Length 50;
Best Local Similarity 54.0%; Pred. No. 6.8e-13;
Matches 27; Conservative 10; Mismatches 13; Indels 0; Gaps 0;

QY 3 ECSPGSSITDRYCYKPPKQEMTWSAERFCSEQAKGHLISVETALDASR 52
DB 1 DCPSDWSHGHGCKYKFNLYKTWEDAKFCTEQANGHLVSISSKKEANF 50

RESULT 35
US-08-401-530A-3
Sequence 3, Application US/08401530A
Patent No. 5834590
GENERAL INFORMATION:
APPLICANT: Vinik, Aaron I.
APPLICANT: Pittenger, Gary L.
APPLICANT: Rafaeloff, Ronit
APPLICANT: Rosenberg, Lawrence
APPLICANT: Duguid, William P.
TITLE OF INVENTION: INCAP PROTEIN INVOLVED IN PANCREATIC
TITLE OF INVENTION: ISLET NEOGENESIS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Allegretti
STREET: 1001 G Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20001-4597
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/401,530A
FILING DATE: 22-FEB-1995
CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:
NAME: Kagan, Sarah A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 00570.48743
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 175 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Rattus rattus
US-08-401-530A-3

Query Match 23.4%; Score 162.5; DB 2; Length 175;
Best Local Similarity 30.9%; Pred. No. 5.5e-12;
Matches 43; Conservative 21; Mismatches 56; Indels 19; Gaps 5;

QY 2 LECPSGSSITDRYCYKPPKQEMTWSAERFCSEQAKGHLISVETALDASRFDVNLVANK 61
DB 38 ISCPKSGQAYSGSYVALFQIPQTFPDAELACORRPE-GHLYSVLVAAEASFLASNV-KYT 95
QY 62 EYLTRYIWIGLARQN-KGQPCSS-----ISYEN-----LYDPFECFVNSDTRL 104
DB 96 GNSYQYIWIIGLHDPTLIGEBNGGEMWSNNDIMVYNNERNSTALDRFGCSLSRSSGF 155
QY 105 REWFKVDCSQHSHFICKFT 123
DB 156 LMRDITTCVYKLPYCKFT 174

RESULT 36
US-08-709-662-3
Sequence 3, Application US/08709662
Patent No. 5840531
GENERAL INFORMATION:
APPLICANT: Vinik, Aaron I.
APPLICANT: Pittenger, Gary L.
APPLICANT: Rafaeloff, Ronit
APPLICANT: Rosenberg, Lawrence
APPLICANT: Duguid, William P.
TITLE OF INVENTION: INCAP PROTEIN INVOLVED IN PANCREATIC
TITLE OF INVENTION: ISLET NEOGENESIS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: 1001 G Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20001-4597
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/709,662
FILING DATE: 09-SEP-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Kagan, Sarah A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 00570.59178
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:

LENGTH: 175 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Rattus rattus
US-08-709-662-3

Query Match 23.4%; Score 162.5; DB 2; Length 175;
Best Local Similarity 30.9%; Pred. No. 5, 5e-12;
Matches 43; Conservative 21; Mismatches 56; Indels 19; Gaps 5;

QY 2 LCPGWSSTDRYCYKPKQEMTWASAEPCSEQAKGHLISVETALASFDVNLVANK 61
DB 38 ISCPKSGQAVGXYCYALFQIPQTFMDEALACQKRP- GHLSVLANVAEASFLASWV-KQT 95
QY 62 EVLTRIYIWLGLRVQNKGPC-----SSISYENLVDPFECFVNSRDLRLREMFKYDCEQ 104
DB 96 GNSYQYIWLGLHPTLGGEPNGGWMNSNDIMNYWERNPSTALDRFGCSLSRSGF 155
QY 105 REMFKYDCEQHSFICKT 123
DB 156 LRWRDTTCVYKLPYCKT 174

RESULT 37
US-07-893-929A-10
Sequence 10, Application US/07893929A
Patent No. 5336667
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
TITLE OF INVENTION: Alboagregins: Platelet
TITLE OF INVENTION: Agonists Which Bind To Platelet
TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
ADDRESS: wealth System of Higher Education
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/893,929A
FILING DATE: 19920605
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 123 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
US-07-893-929A-10

Query Match 22.7%; Score 158; DB 1; Length 123;

Best Local Similarity 28.6%; Pred. No. 1, 2e-11;
Matches 36; Conservative 18; Mismatches 60; Indels 12; Gaps 4;

QY 4 CPBGWSSTDRYCYKPKQEMTWASAEPCSEQAKGHLISVETA-LEASFVNDLVANK 62
DB 2 CLPDWSVYEGYCYKPKERMMWADAEKFCMKQVKGHLVSFRNSKXXXXXXXXXXXXX 61
QY 63 YLTRIYIWLGLRVQNKGPC-----SSISYENLVDPFECFVNSRDLRLREMFKYDCEQ 115
DB 62 XKMLVWIGL--SDYWRDCYEMSDAQDYKANDNERHCF--AAKTIDNQMRRKCSGE 117
QY 116 HSFICK 121
DB 118 FYFVCK 123

RESULT 38
PCT-US92-10344-10
Sequence 10, Application PC/TUS9210344
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
TITLE OF INVENTION: Alboagregins: Platelet
TITLE OF INVENTION: Agonists Which Bind To Platelet
TITLE OF INVENTION: Membrane Glycoprotein Ib
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
ADDRESS: wealth System of Higher Education
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/10344
FILING DATE: 19921201
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 123 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
PCT-US92-10344-10

Query Match 22.7%; Score 158; DB 5; Length 123;
Best Local Similarity 28.6%; Pred. No. 1, 2e-11;
Matches 36; Conservative 18; Mismatches 60; Indels 12; Gaps 4;

QY 4 CPBGWSSTDRYCYKPKQEMTWASAEPCSEQAKGHLISVETA-LEASFVNDLVANK 62
DB 2 CLPDWSVYEGYCYKPKERMMWADAEKFCMKQVKGHLVSFRNSKXXXXXXXXXXXXX 61
QY 63 YLTRIYIWLGLRVQNKGPC-----SSISYENLVDPFECFVNSRDLRLREMFKYDCEQ 115
DB 62 XKMLVWIGL--SDYWRDCYEMSDAQDYKANDNERHCF--AAKTIDNQMRRKCSGE 117

QY 116 HSFICK 121
DB 118 FYEVCK 123

RESULT 39

US-08-464-637-2
Sequence 2, Application US/08464637
Patent No. 5834214
GENERAL INFORMATION:

APPLICANT: Iovanna, Juan-Lucio
APPLICANT: Dagorn, Jean-Charles
APPLICANT: Kaim, Volker
TITLE OF INVENTION: Detection of Pancreatitis-Associated
TITLE OF INVENTION: Protein for diagnosis of Cystic Fibrosis or Pancreatic
TITLE OF INVENTION: Disease (as amended)
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Birch, Stewart, Kolaich & Birch, LLP
STREET: P.O. Box 747
CITY: Falls Church
STATE: Virginia
COUNTRY: USA
ZIP: 22040-3487

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/464,637
FILING DATE: 30-AUG-1995
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Murphy Jr., Gerald M.
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 2121-107P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-205-8000
TELEFAX: 703-205-8050

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 175 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-464-637-2

Query Match 22.1%; Score 153.5; DB 2; Length 175;
Best Local Similarity 25.7%; Pred. No. 7,1e-11;
Matches 36; Conservative 24; Mismatches 59; Indels 21; Gaps 4;

QY 2 LECPSGMSSTDRYCYXFEKQMTWASAEPCSOAKGHLISYETALASFDVNLVYA-N 60
DB 38 IRCPKSKAYGSHCYALFLSPKSWTDADLAC-QKPSGNLVSVLSGAEGSFVSLVKSIG 96

QY 61 KEYLTRYIWIIGLVONKQGPCSSISYE-----NLVDPECFMVSRTDR 103
DB 97 NSY--SYVWIGLHDPQGTPEPNEGMEWSSSDVMYFAMERNPSTISSPCHCASLSRSTA 154

QY 104 LREMFKVDCQOHSFICKFT 123
DB 155 FLRMKDYNCNVRLLPYCKFT 174

RESULT 40

US-08-401-530A-4
Sequence 4, Application US/08401530A
Patent No. 5834590
GENERAL INFORMATION:
APPLICANT: Vink, Aaron I.
APPLICANT: Pittenger, Gary L.

APPLICANT: Rafaeloff, Ronit
APPLICANT: Rosenberg, Lawrence
APPLICANT: Duguid, William P.
TITLE OF INVENTION: INGP PROTEIN INVOLVED IN PANCREATIC
TITLE OF INVENTION: ISLET NEOGENESIS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Allegretti
STREET: 1001 G Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20001-4597

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/401,530A
FILING DATE: 22-FEB-1995
CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:
NAME: Kagan, Sarah A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 00570.48743
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9299
TELEFAX: 202-508-9299

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 175 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-401-530A-4

Query Match 22.1%; Score 153.5; DB 2; Length 175;
Best Local Similarity 25.7%; Pred. No. 7,1e-11;
Matches 36; Conservative 24; Mismatches 59; Indels 21; Gaps 4;

QY 2 LECPSGMSSTDRYCYXFEKQMTWASAEPCSOAKGHLISYETALASFDVNLVYA-N 60
DB 38 IRCPKSKAYGSHCYALFLSPKSWTDADLAC-QKPSGNLVSVLSGAEGSFVSLVKSIG 96

QY 61 KEYLTRYIWIIGLVONKQGPCSSISYE-----NLVDPECFMVSRTDR 103
DB 97 NSY--SYVWIGLHDPQGTPEPNEGMEWSSSDVMYFAMERNPSTISSPCHCASLSRSTA 154

QY 104 LREMFKVDCQOHSFICKFT 123
DB 155 FLRMKDYNCNVRLLPYCKFT 174

RESULT 41

US-08-709-662-4
Sequence 4, Application US/08709662
Patent No. 5840531
GENERAL INFORMATION:
APPLICANT: Vink, Aaron I.
APPLICANT: Pittenger, Gary L.
APPLICANT: Rafaeloff, Ronit
APPLICANT: Rosenberg, Lawrence
APPLICANT: Duguid, William P.
TITLE OF INVENTION: INGP PROTEIN INVOLVED IN PANCREATIC
TITLE OF INVENTION: ISLET NEOGENESIS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Wilcoff, Ltd.
STREET: 1001 G Street, N.W.
CITY: Washington

STATE: D.C.
COUNTRY: US
ZIP: 20001-4597
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/709,662
FILING DATE: 09-SEP-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Kagan, Sarah A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 00570.59178
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 175 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-08-709-662-4

Query Match 22.1%; Score 153.5; DB 2; Length 175;
Best Local Similarity 25.7%; Pred. No. 7.1e-11;
Matches 36; Conservative 24; Mismatches 59; Indels 21; Gaps 4;

QY 2 LECPSGMSSTDRCYKPFKQEMTWASAEFSCSOAKGHLISVETALBASFDVNLVA-N 60
DB 38 INCPKSKAYGSHCYALFLSPKSWTDADLAC-QKRPNGNLVSVLSGAGSFVSSLYKSI 96

QY 61 KEYLTRYITIGLRVQNKQGPCSSISYE-----NLVDPFECFMSRDTR 103
DB 97 NSY--SYWVIGLHDPQTGTEPNBGEWESSSDVMNYFAMERNPSTISSPGHCASLSRSTA 154

QY 104 LRFMFVDCQOHSFICKFT 123
DB 155 FLRMKDYNQCNRLPYCKFT 174

RESULT 42
US-08-822-261-3
Sequence 3, Application US/08822261
Patent No. 5935813
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: NOVEL HUMAN PANCREATITIS-ASSOCIATED
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: PASTESEQ for windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/822,261
FILING DATE: Filed Herewith
CLASSIFICATION: 530
PRIOR APPLICATION DATA:

APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0251 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 175 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 262369
US-08-822-261-3

Query Match 22.1%; Score 153.5; DB 2; Length 175;
Best Local Similarity 25.7%; Pred. No. 7.1e-11;
Matches 36; Conservative 24; Mismatches 59; Indels 21; Gaps 4;

QY 2 LECPSGMSSTDRCYKPFKQEMTWASAEFSCSOAKGHLISVETALBASFDVNLVA-N 60
DB 38 INCPKSKAYGSHCYALFLSPKSWTDADLAC-QKRPNGNLVSVLSGAGSFVSSLYKSI 96

QY 61 KEYLTRYITIGLRVQNKQGPCSSISYE-----NLVDPFECFMSRDTR 103
DB 97 NSY--SYWVIGLHDPQTGTEPNBGEWESSSDVMNYFAMERNPSTISSPGHCASLSRSTA 154

QY 104 LRFMFVDCQOHSFICKFT 123
DB 155 FLRMKDYNQCNRLPYCKFT 174

RESULT 43
US-09-226-852-3
Sequence 3, Application US/09226852
Patent No. 6492499
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: NOVEL HUMAN PANCREATITIS-ASSOCIATED
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: PASTESEQ for windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/226,852
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/822,261
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0251 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 175 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 262369
US-09-226-852-3

Query Match 22.1%; Score 153.5; DB 4; Length 175;
Best Local Similarity 25.7%; Pred. No. 7.1e-11;
Matches 36; Conservative 24; Mismatches 59; Indels 21; Gaps 4;

QY 2 LBCPSGMSSTDRYCYKPFQKQMTWASAEKRCSEQAKGHLISVETALASFDVNLVYA-N 60
DB 38 IRCPKSGSKAYGSHCYALFLSPKSWTDADLAC-QKRPNGNLVSVLSGAEQSFVSLVKSIG 96
QY 61 KEYLTRYIWIIGLRVQNKGPCSSISYE-----NIVDPECFMVRDR 103
DB 97 NSY--SYWIGLHDPFGTEPNNGEWMSSSDVMNTFAMERNSTISSPCHCALSRSIA 154
QY 104 LREMFVDCQEQHSFICKFT 123
DB 155 FLRMKDYNQCNVRLPYCKFT 174

RESULT 44
US-09-949-016-10537
Sequence 10537, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10537
LENGTH: 183
TYPE: PRT
ORGANISM: Human
US-09-949-016-10537

Query Match 22.1%; Score 153.5; DB 4; Length 183;
Best Local Similarity 25.7%; Pred. No. 7.5e-11;
Matches 36; Conservative 24; Mismatches 59; Indels 21; Gaps 4;

QY 2 LBCPSGMSSTDRYCYKPFQKQMTWASAEKRCSEQAKGHLISVETALASFDVNLVYA-N 60
DB 46 IRCPKSGSKAYGSHCYALFLSPKSWTDADLAC-QKRPNGNLVSVLSGAEQSFVSLVKSIG 104
QY 61 KEYLTRYIWIIGLRVQNKGPCSSISYE-----NIVDPECFMVRDR 103
DB 105 NSY--SYWIGLHDPFGTEPNNGEWMSSSDVMNTFAMERNSTISSPCHCALSRSIA 162
QY 104 LREMFVDCQEQHSFICKFT 123
DB 163 FLRMKDYNQCNVRLPYCKFT 182

RESULT 45
US-08-401-530A-7
Sequence 7, Application US/08401530A

Patent No. 5834590
GENERAL INFORMATION:
APPLICANT: Vinik, Aaron I.
APPLICANT: Pittenger, Gary L.
APPLICANT: Rafaeloff, Ronit
APPLICANT: Rosenbery, Lawrence
APPLICANT: Duguid, William P.
TITLE OF INVENTION: INGP PROTEIN INVOLVED IN PANCREATIC
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Allegretti
STREET: 1001 G Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20001-4597
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/401,530A
FILING DATE: 22-FEB-1995
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Kagan, Sarah A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 00570.48743
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 165 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Rattus rattus
US-08-401-530A-7

Query Match 21.7%; Score 151; DB 2; Length 165;
Best Local Similarity 29.6%; Pred. No. 1.3e-10;
Matches 40; Conservative 26; Mismatches 51; Indels 18; Gaps 5;

QY 2 LBCPSGMSSTDRYCYKPFQKQMTWASAEKRCSEQAKGHLISVETALASFDVNLVYANK 61
DB 33 ITCPSGMSNAYSYCYFMEHDLSMAADLFC-QNMNSGYLVSLSGAEGNPLASLI---K 88
QY 62 EYIT--RYIWIIGLR-VQNKGPCSSIS-----YENLVDPPECFMVRDR 107
DB 89 ESGTAAWYIWIIGLHDPKNNRMRHWSGSLFLYKMDTGYPNNSNRGCVSVTNSGKXW 148
QY 108 FKYDCQEQHSFICKFT 122
DB 149 RDNSCDAQLSFVCKF 163

RESULT 46
US-08-729-103-3
Sequence 3, Application US/08729103
Patent No. 5837841
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: NOVEL HUMAN REG PROTEIN
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto

STATE: CA
COUNTRY: US
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/729,103
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0138 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 165 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 393209
US-08-729-103-3

Query Match 21.7%; Score 151; DB 2; Length 165;
Best Local Similarity 29.6%; Pred. No. 1.3e-10;
Matches 40; Conservative 26; Mismatches 51; Indels 18; Gaps 5;

QY 2 LBCPSGMSSTRDYCKPFPQEMTWASAEPCSEQAKGHLISVETALASFPVDNVLVANK 61
DB 33 ITCPEGSNNYSYCYFMEDHLSMAADLFC-QNNNSGYLVSVLSQAEGNFLASLI---K 88
QY 62 EYLT--RYIWIGLR--VONKGPCCSSIS-----YENLVDPPECFMWSRDTLRLEW 107
DB 89 ESGTTAAWVIGLHDPKNNRMRHWSGSLFLYKSWDTGYPNNSNRGYCVSVNSGYKKW 148
QY 108 FKVDCEQHSFICKF 122
DB 149 RDNSCDAQLSFVCKF 163

RESULT 47
US-08-709-662-7
Sequence 7, Application US/08709662
Patent No. 5840531
GENERAL INFORMATION:
APPLICANT: Vinik, Aaron I.
APPLICANT: Piltenger, Gary L.
APPLICANT: Rafaeleoff, Ronit
APPLICANT: Rosenberg, Lawrence
APPLICANT: Duguid, William P.
TITLE OF INVENTION: INGP PROTEIN INVOLVED IN PANCREATIC
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: 1001 G Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20001-4597
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/709,662
FILING DATE: 09-SEP-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Kagan, Sarah A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 00570.59178
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 165 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Rattus rattus
US-08-709-662-7

Query Match 21.7%; Score 151; DB 2; Length 165;
Best Local Similarity 29.6%; Pred. No. 1.3e-10;
Matches 40; Conservative 26; Mismatches 51; Indels 18; Gaps 5;

QY 2 LBCPSGMSSTRDYCKPFPQEMTWASAEPCSEQAKGHLISVETALASFPVDNVLVANK 61
DB 33 ITCPEGSNNYSYCYFMEDHLSMAADLFC-QNNNSGYLVSVLSQAEGNFLASLI---K 88
QY 62 EYLT--RYIWIGLR--VONKGPCCSSIS-----YENLVDPPECFMWSRDTLRLEW 107
DB 89 ESGTTAAWVIGLHDPKNNRMRHWSGSLFLYKSWDTGYPNNSNRGYCVSVNSGYKKW 148
QY 108 FKVDCEQHSFICKF 122
DB 149 RDNSCDAQLSFVCKF 163

RESULT 48
US-07-893-929A-8
Sequence 8, Application US/07893929A
Patent No. 5336667
GENERAL INFORMATION:
APPLICANT: Kirby, Edward P.
APPLICANT: Peng, Man-ling
TITLE OF INVENTION: Alboaggregins: Platelet
TITLE OF INVENTION: Agonists which Bind To Platelet
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Temple University - Of The Common-
ADDRESSEE: wealth System of Higher Education
STREET: 406 University Services Building
CITY: Philadelphia
STATE: Pennsylvania
COUNTRY: U.S.A.
ZIP: 19122
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/893,929A
FILING DATE: 19920605
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/803,630
FILING DATE: December 3, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.

REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEFAX: (215) 568-5549
TELEX: No. 533667E
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 128 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
US-07-893-929A-8

Query Match 21.4%; Score 148.5; DB 1; Length 128;
Best Local Similarity 27.3%; Pred. No. 1.9e-10;
Matches 35; Conservative 11; Mismatches 73; Indels 9; Gaps 2;

QY 3 ECPGSGMSSTDYRYCYKPFQKQMTWASAEKPCSEQAKGHLISVETALASPV-DNVLANK 61
DB 1 DCPSPDMSYDLYCYKVFQERNMDEAFQCRQHTGXXXXXXHSESEVDFVXXXXXXXXXX 60
QY 62 EYLIRYIWIGLAVQNKGPC-----SSISYENLVDPFECFPMVSRDTRLREMFVDC 113
DB 61 XXXXXXXXWIGLTVXXWSACRLQWSDGTSLKRYNMTASECTIASXXXXXXXXXXWTRSCS 120
QY 114 QOHSFICK 121
DB 121 RTYFVICK 128

RESULT 49

PCT-US92-10344-8
Sequence 8, Application PC/TUS9210344

GENERAL INFORMATION:

APPLICANT: Kirby, Edward P.

TITLE OF INVENTION: Alboaggregins: Platelet

TITLE OF INVENTION: Agonists Which Bind To Platelet

TITLE OF INVENTION: Membrane Glycoprotein Ib

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: Temple University - Of The Common-

ADDRESSEE: wealth System of Higher Education

STREET: 406 University Services Building

CITY: Philadelphia

STATE: Pennsylvania

COUNTRY: U.S.A.

ZIP: 19122

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb

COMPUTER: IBM PS/2

OPERATING SYSTEM: MS-DOS

SOFTWARE: Wordperfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US92/10344

FILING DATE: 19921201

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/803,630

FILING DATE: December 3, 1991

ATTORNEY/AGENT INFORMATION:

NAME: Monaco, Daniel A.

REGISTRATION NUMBER: 30,480

REFERENCE/DOCKET NUMBER: 6056-126 (CIP) 1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (215) 568-8383

TELEFAX: (215) 568-5549

TELEX: None

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 128 amino acids

TYPE: AMINO ACID

TOPOLOGY: linear

PCT-US92-10344-8

Query Match 21.4%; Score 148.5; DB 5; Length 128;
Best Local Similarity 27.3%; Pred. No. 1.9e-10;
Matches 35; Conservative 11; Mismatches 73; Indels 9; Gaps 2;

QY 3 ECPGSGMSSTDYRYCYKPFQKQMTWASAEKPCSEQAKGHLISVETALASPV-DNVLANK 61
DB 1 DCPSPDMSYDLYCYKVFQERNMDEAFQCRQHTGXXXXXXHSESEVDFVXXXXXXXXXX 60
QY 62 EYLIRYIWIGLAVQNKGPC-----SSISYENLVDPFECFPMVSRDTRLREMFVDC 113
DB 61 XXXXXXXXWIGLTVXXWSACRLQWSDGTSLKRYNMTASECTIASXXXXXXXXXXWTRSCS 120
QY 114 QOHSFICK 121
DB 121 RTYFVICK 128

RESULT 50

US-08-822-261-1

Sequence 1, Application US/08822261

Patent No. 5935813

GENERAL INFORMATION:

APPLICANT: Hallman, Jennifer L.

TITLE OF INVENTION: Goli, Surya K.

TITLE OF INVENTION: NOVEL HUMAN PANCREATITIS-ASSOCIATED

TITLE OF INVENTION: PROTEIN

NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESSEE: Incyte Pharmaceuticals, Inc.

STREET: 3174 Porter Drive

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: Fastseq for windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/822,261

FILING DATE: Filed Herewith

CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0251 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-845-4166

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 175 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: ISITNOT01

CLONE: 2072483

US-08-822-261-1

Query Match 21.4%; Score 148.5; DB 2; Length 175;
Best Local Similarity 25.9%; Pred. No. 2.9e-10;
Matches 36; Conservative 25; Mismatches 57; Indels 21; Gaps 4;

QY 2 ECPGSGMSSTDYRYCYKPFQKQMTWASAEKPCSEQAKGHLISVETALASPV-DNVLANK 60
DB 38 ISCPGSKAYGSPCYALFLSPKSWMDADLAC-QKRPSSGLVSVLGSAGSGFVSSIVRSIS 96

QY 61 KEYLPRYTWIGLRVONKQPCSSISYE-----NYDPFEGFMVSPDTR 103
Db 97 NSY--SYIWIGLHDPYQSGEPDGDGWEWSSTVVMNYFAWEKNPSTILNPGHCGSLRSTG 154
QY 104 LREMFKVDCCEQOHSFICKF 122
Db 155 FLKMKDYNCDAKLPYVCKF 173

Search completed: May 2, 2005, 16:02:54
Job time : 26 secs